

April 15, 2003

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Mason
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 2-6, 3-6, 5-6, 6-6, 7-6, 8-6, 13-6, and 14-6-9-18.

#### Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier

Regulatory Specialist

mc

enclosures

RECEIVED

APR 1 7 2003

DIV. OF OIL, GAS & MINING

FORM 3160-3 (December 1990)

CONDITIONS OF APPROVAL, IF ANY

APPROVED BY

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

# UNITED STATES

Expires December 31, 1991	
LEASE DESIGNATION AND SERIAL NO.	
UTU-65970	 
The second on the MANE	

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  APPLICATION FOR PERMIT TO DRILL & DEEPEN, OR PLUG BACK  APPLICATION FOR PERMIT TO DRILL & DEEPEN, OR PLUG BACK  APPLICATION FOR PERMIT TO DRILL & DEEPEN, OR PLUG BACK  APPLICATION FOR WELL & DEEPEN & N./A  B. FARM OR LEASE NAME WELL NO  B. FARM OR LEASE NAME WELL NO  F. FOR OF OFFERATOR  APPLICATION FOR PERMIT ROUGH IN STATE PROPERTY OR PHONE: (435) 646-3721  B. DETANCE FROM PROPOSED LOCATION FOR MEAREST TOWN OR POST OFFICE?  APPROVALE AND DIRECTION FROM NEAREST TOWN OR POST OFFICE?  APPROVALE NAME OF PROPOSED LOCATION TO NEAREST ROPERTY OR LEASE LINE FLAME OR LEASE LINE FLAME OR LEASE LINE FLAME OR LEASE LINE FLAME OR PROPOSED LOCATION TO NEAREST WELL, IS. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS. PROPOSED DEPTH  C. B. DETANCE FROM PROPOSED LOCATION TO NEAREST WELL, IS	PPLICATION FOR F TYPE OF WORK DRILL	RTMENT OF 1 REAU OF LAND!					٠ ا		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  N/A  TYPE OF WORK  THIS THANK THANK  TYPE OF WORK  THIS THANK THANK  THANK THANK THANK  THANK THANK THANK  THANK THANK THANK THANK  THANK	PPLICATION FOR F	REAU OF LAND I	HEI	NTERIOR			1,		AND SERVE NO.
PPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  N/A  7. UNIT AGREEMENT NAME N/A  8. FARM OR LEASE NAME WELL NO  PEDETAL SUMEL OTHER ZONE X ZONE PEDETAL SUM OTHER ZONE X ZONE PEDETAL SUM OTHER ZONE AND SUFFICE SUM OTHER ZONE PROPERTY  LOCATION OF WELL (Report location cleerly and in accordance with any State requirements.*)  LOCATION OF WELL (Report location cleerly and in accordance with any State requirements.*)  DISTANCE PROM PROPOSED* LOCATION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST TROPERTY  OR LEASE LINE, FT (Also to  LIPPTOX . 1846* (FISE line)  1.036.24  40  LIPPTOX . 1846* (FISE line)  1.036.24  22. APPROX. DATE WORK WILL START*  374 Quarter 2003  22. APPROX. DATE WORK WILL START*  375 QUARTER 2003  23. PROPOSED CASING AND CEMENTING PROGRAM  23. PROPOSED CASING AND CEMENTING PROGRAM	TYPE OF WORK DRILL		MANA	GEMENT				IF INDIAN, ALLOTTER	E OR TRIBE NAME
TYPE OF WORK  TYPE OF WORK  TYPE OF WORK  TYPE OF WORL  GAS  SINGLE  ZONE  X ZONE  X ZONE  SFARM OR LEASE NAME WELL NO  Federal #6-6-9-18  8. FARM OR LEASE NAME WELL NO  Federal #6-6-9-18  9. API WELL DO  Federal #6-6-9-18  10. FIELD AND POOL OR WILDCAT  Bight Mile Flat  DIDERSS OF OPERATOR  DUTE #3 BOX 3630, Myton, UT 84052  DIDERSS OF OPERATOR  DUTE #3 BOX 3630, Myton, UT 84052  DIDERSS OF OPERATOR  DIDERS OF OPERATOR  10. FIELD AND POOL OR WILDCAT  Eight Mile Flat  DISECT. R. M. OR BLK.  AND SURVEY OR AREA  SENW  SEC. 6, T9S, R18E  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY  OR LEASE LINE, FT. (Also to  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL.  DISTANCE	TYPE OF WORK DRILL					A CV	ľ	•	
TYPE OF WORK  TYPE OF WORK  TYPE OF WORK  TYPE OF WORL  GAS  SINGLE  ZONE  X ZONE  X ZONE  SFARM OR LEASE NAME WELL NO  Federal #6-6-9-18  8. FARM OR LEASE NAME WELL NO  Federal #6-6-9-18  9. API WELL DO  Federal #6-6-9-18  10. FIELD AND POOL OR WILDCAT  Bight Mile Flat  DIDERSS OF OPERATOR  DUTE #3 BOX 3630, Myton, UT 84052  DIDERSS OF OPERATOR  DUTE #3 BOX 3630, Myton, UT 84052  DIDERSS OF OPERATOR  DIDERS OF OPERATOR  10. FIELD AND POOL OR WILDCAT  Eight Mile Flat  DISECT. R. M. OR BLK.  AND SURVEY OR AREA  SENW  SEC. 6, T9S, R18E  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY  OR LEASE LINE, FT. (Also to  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL.  DISTANCE	TYPE OF WORK DRILL	ERMIT TO DR	ILL,	DEEPEN, OR P	LUG B	ACK			
AME OF OFERATOR    AME OF OFERATOR   S. FAMOR LEASE NAME WELL   OTHER   ZONE   X ZON	, in E or more.	V DEEDEN	<del>-</del>				7	. UNIT AGREEMENT N	AME
AME OF OPERATOR  IAME OF OPERA	THE OF MELT	ADLLIFTIN					Ĺ	N/A	
AME OF OPERATOR  Ind Production Company  DORES OF OPERATOR  Indexty Service SE/NW  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY  DISTANCE FROM PROPOSED LOCATION TO NEAREST FROPERTY  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL.  19. PROPOSED DEPTH  20. ROTARY OR CABLE TOOLS  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003  DATE OF CASING WEIGHTPROOT  DISTANCE FROM PROPOSED LOCATION TO SERVE WILL.  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL.  BECAUTION (Show whether DF, RT, GR, etc.)  3rd Quarter 2003				INCLE :	MULTIPLE		8	, FARM OR LEASE NAI	ME WELL NO
AME OF OPERATOR    Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND POOL OR WILDCAT     Iland Production Company   10. Field AND Pool OR WILDCAT     Iland Production Company   10. Field AND Pool OR WILDCAT     Iland Production Company   10. Field AND Pool OR WILDCAT     Iland Production Company   10. Field AND Pool OR WILDCAT     Iland Production Company   10. Field AND Pool OR WILDCAT     Iland Production Company   10. Field AND SURVEY OR AREA     SE/NW   SE/NW   SE/NW   SE/NW     SE/NW   Sec. 6, T9S, R18E     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     SE/NW   Sec. 6, T9S, R18E     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     SE/NW   Sec. 6, T9S, R18E     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10. Field AND SURVEY OR AREA     Iland Production Company   10.		OTHER [		- <del></del>			İ	Federal	#6-6-9-18
Internation	ــــــــ معد	UIHEK			·				110 A11000
DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, or APPLIED FOR ON THIS LEASE, FT.  PROPOSED CASING AND CEMENTING PROGRAM  Eight Mile Flat  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  SE/NW  1935' FNL 1846' FWL 4434946 Y 40. 06/80  590543 X -/09.93837  SE/NW  Sec. 6, 79S, R18E  11. County Untah  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  SE/NW  Sec. 6, 19S, R18E  12. County Untah  UT  13. STATE  UT  14. NO. OF ACRES ASSIGNED TO THIS WELL  25. ROTARY OR CABLE TOOLS  ROTARY OR CABLE TOOLS  ROTARY  26. ROTARY OR CABLE TOOLS  ROTARY  27. APPROX. DATE WORK WILL START*  3rd Quarter 2003							į	43-0	47-34933
DUSTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES AND DIRECTION FROM NEAREST FROPERTY  OR LEASE LINE, FT. (Also to  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY  OR LEASE LINE, FT. (Also to  DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,  DISTANCE FROM	land Production Compan	ıy						0. FIELD AND POOL O	R WILDCAT
COCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  Surface SE/NW 1935' FNL 1846' FWL 4434946 Y 40.06/80  SE/NW 1935' FNL 1846' FWL 4434946 Y 40.06/80  SE/NW Sec. 6, T9S, R18E  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE IN MILES SOUTH AS MILES SOUTH AS TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to 1,036.24 40)  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. 6500'  ROTAL SEC. T. R. M., OK BL.  AND SURVEY OR AREA SE//NW Sec. 6, T9S, R18E  12. County Uintah UT  13. STATE  UT  15. NO. OF ACRES ASSIGNED TO THIS WELL  20. ROTARY OR CABLE TOOLS  ROTARY  20. ROTARY OR CABLE TOOLS  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003  PROPOSED CASING AND CEMENTING PROGRAM  25. OF HOLE  SIZE OF CASING WEIGHTFOOT SETTING DEPTH QUANTITY OF CEMENT	DDRESS OF OPERATOR	TTT 04053		Phone:	(435) 646	3721			
Surface SE/NW proposed Prod. Zone  590543 X -109.93837  SE/NW Sec. 6, T9S, R18E  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to  Prov. 1846' f/Ise line DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  PROPOSED CASING AND CEMENTING PROGRAM  SEC. NY Sec. 6, T9S, R18E  12. County Uintah UT  13. STATE Uintah UT  14. NO. OF ACRES ASSIGNED TO THIS WELL  20. ROTARY OR CABLE TOOLS  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003  PROPOSED CASING AND CEMENTING PROGRAM  SECTING DEPTH QUANTITY OF CEMENT	oute #3 Box 3630, Myton,		with any	Ctote requirements *)		_			
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to DISTANCE FROM PROPOSED LOCATION** TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  PPPROX. 1086'  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING  WEIGHT/FOOT  SEC. 6, T9S, R18E  12. County Uintah UT  13. STATE UIntah UT  17. NO. OF ACRES ASSIGNED TO THIS WELL  40  20. ROTARY OR CABLE TOOLS  ROTARY 22. APPROX. DATE WORK WILL START*  3rd Quarter 2003		1935' FNL 184	6' FW	L 0444790 T	40.0	le 180	1		LEA
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  PPROXIMATELY 17.8 miles southeast of Myton, Utah  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to PPROX. 1846' f/Ise line DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. PROPOX. 1086' ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING WEIGHT/FOOT  SETTING DEPTH  12. County Uintah  17. NO. OF ACRES ASSIGNED TO THIS WELL  40  20. ROTARY OR CABLE TOOLS  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003	J-114	1,00 11.2		CANFILLY	-109	42827	1		
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  Uintah  UIntah  UI  DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Algo to  Approx. 1846' f/lse line DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. Approx. 1086' BLEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  SET OF HOLE  Uintah  UI  Uintah  UI  UIntah  UI  UI  UI  UI  UI  UI  UI  UI  UI  U	proposed Prod. Zone			3705921	101.	1000			
DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to 1,036.24 40 40 40 40 40 40 40 40 40 40 40 40 40	DISTANCE IN MILES AND DIRECTION	FROM NEAREST TOWN OR P	OST OFFI	CE*					1
DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to  pprox. 1846' f/lse line  DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  pprox. 1086'  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING WEIGHT/FOOT  SETTING DEPTH  16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS CHEESE 19. NO. OF ACRES ASSIGNED TO THIS CHEESE 19. NO. OF ACRES ASSIGNED TO THIS CHEESE 19. NO. OF ACRES IN LEASE 19. NO. OF ACRES IN LEASE 19. NO. OF ACRES ASSIGNED TO THIS CHEESE 20. ROTARY OR CABLE TOOLS 20. ROTARY OR CABLE TOOLS 22. APPROX. DATE WORK WILL START* 3rd Quarter 2003  22. APPROX. DATE WORK WILL START* 3rd Quarter 2003	provimately 17 8 miles	southeast of Myton	, Utah			*			[01
DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  DEPORA. 1086'  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING WEIGHT/FOOT  SETTING DEPTH  QUANTITY OF CEMENT  QUANTITY OF CEMENT	pproximately 17:0 miles	TON TO NEADEST PROPERTY	<u> </u>	16. NO. OF ACRES IN LEASE		17. NO. OF ACRES	ASSIGNED TO	THIS WELL	
DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  Approx. 1086'  ELEVATIONS (Show whether DF, RT, GR, etc.)  957' GR  PROPOSED CASING AND CEMENTING PROGRAM  IZE OF HOLE  SIZE OF CASING  WEIGHT/FOOT  19. PROPOSED DEPTH  20. ROTARY OR CABLE TOOLS  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003	OP LEASE LINE FT. (Also to	ION TO NEAREST THOTES.	,		!				
DISTANCE FROM PROFOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  S. PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING  WEIGHT/FOOT  SETTING DEPTH  ROTARY  22. APPROX. DATE WORK WILL START*  3rd Quarter 2003  QUANTITY OF CEMENT  QUANTITY OF CEMENT			Į.				. D. F. TOOL S	<u> </u>	
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  PPPROX. 1086'  SELEVATIONS (Show whether DF, RT, GR, etc.)  957' GR  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING WEIGHT/FOOT  SETTING DEPTH  QUANTITY OF CEMENT  QUANTITY OF CEMENT	DICTANCE EDOM PROPOSED LOCATI	ON* TO NEAREST WELL,		19. PROPOSED DEPTH		20. ROTARY OR CA	ARLE TOOLS		
Approx. 1086'  ELEVATIONS (Show whether DF, RT, GR, etc.)  957' GR  PROPOSED CASING AND CEMENTING PROGRAM  ZE OF HOLE  SIZE OF CASING WEIGHT/FOOT  SETTING DEPTH  QUANTITY OF CEMENT  QUANTITY OF CEMENT	DRILLING, COMPLETED, OR APPLIED	FOR ON THIS LEASE, FT.		65001		Rot	arv		
I. ELEVATIONS (Show whether DF, RT, GR, etc.)  957' GR  3. PROPOSED CASING AND CEMENTING PROGRAM  IZE OF HOLE  SIZE OF CASING  WEIGHT/FOOT  SETTING DEPTH  QUANTITY OF CEMENT  QUANTITY OF CEMENT	Approx. 1086'			0300				DATE WORK WILL ST	ART*
957' GR 3. PROPOSED CASING AND CEMENTING PROGRAM IZE OF HOLE SIZE OF CASING WEIGHT/FOOT SETTING DEPTH QUANTITY OF CEMENT	. ELEVATIONS (Show whether DF, RT, GI	R, etc.)							
IZE OF HOLE SIZE OF CASING WEIGHT/FOOT SETTING DEPTH QUANTITY OF CEMENT							1014 4		
IZE OF HOLE SIZE OF CASING WEIGHT/FOOT SETTING DEPTH QUANTITY OF CEMENT	PROPOSED CASING A	ND CEMENTING PRO	OGRAN	1					
ZE OF HOLE GEE OF STIGHT					SETTING DEF	тн	QUANTITY	OF CEMENT	
Refer to Monument Butte Field SOP's Drilling Program/Casing Design	ZE OF HOLE	SIZE OF CASING	WEIGHT				T		
Refer to Monument Butte Field SOF's Drining Frogram/Casing Design		TI LI CORL D-SIL	Dwo	grom/Casing Design	<u> </u>				
	lefer to Monument Butte	Field SOP's Drilli	ng Pro	gram/Casing Design					
			1						
Inland Production Company proposes to drill this well in accordance with the attached exhibits.									
	<del></del> -								•
	<del></del>								
	<del>-</del>							4	
	<del>-</del>							*	
								*	
								•	
	<u> </u>							,	
	<del></del>								
	<del></del>							•	

\*See Instructions On Reverse Side

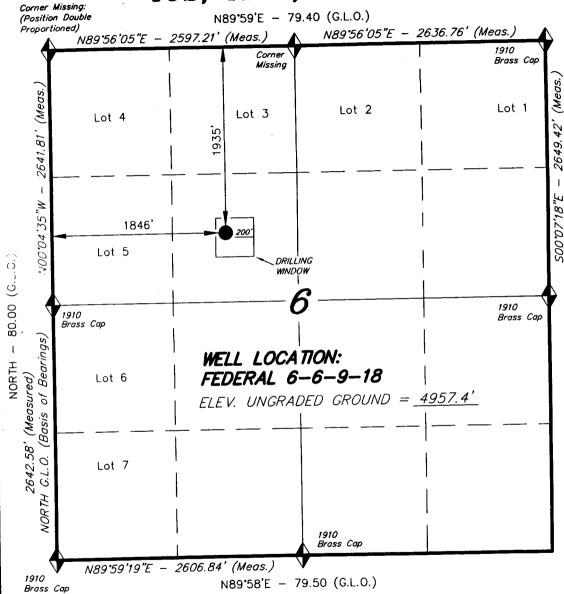
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Action Nachthe sub

**RECEIVED** 

APR 1 7 2003

# T9S, R18E, S.L.B.&M.



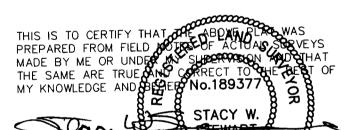


= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

## INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 6-6-9-18, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 6, T9S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.



# TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

SCALE: 1" = 1000' SURVEYED BY: S.Y.

DATE: 3-26-03 DRAWN BY: R.V.C.

FILE #

NOTES:

#### INLAND PRODUCTION COMPANY FEDERAL #6-6-9-18 SE/NW SECTION 6, T9S, R18E UINTAH COUNTY, UTAH

#### **ONSHORE ORDER NO. 1**

#### DRILLING PROGRAM

#### 1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' - 1640' Green River 1640' Wasatch 6500'

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1640' - 6500' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

#### 8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

#### 9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### INLAND PRODUCTION COMPANY FEDERAL #6-6-9-18 SE/NW SECTION 6, T9S, R18E UINTAH COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### **MULTI-POINT SURFACE USE & OPERATIONS PLAN**

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Federal # 6-6-9-18 located in the SE 1/4 NW 1/4 Section 6, T9S, R18E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 15.3 miles  $\pm$  to it's junction with an existing dirt road to the northeast; proceed northeasterly - 0.9 miles  $\pm$  to the beginning of a two track road to be upgraded; proceed along this road - 1.0 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed northeasterly along the proposed access road 540'  $\pm$  to the proposed well location.

#### 2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

#### 6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

#### 8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

#### 9. WELL SITE LAYOUT

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and

surface material stockpile(s).

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### 11. SURFACE OWNERSHIP - Bureau Of Land Management

#### 12. OTHER ADDITIONAL INFORMATION

The Paleontological Resource Survey and Archaeological Resource Survey for this area are attached.

Inland Production Company requests a 60' ROW for the Federal #6-6-9-18 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C."

#### Water Disposal

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

#### 13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### Representative

Name:

**Brad Mecham** 

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

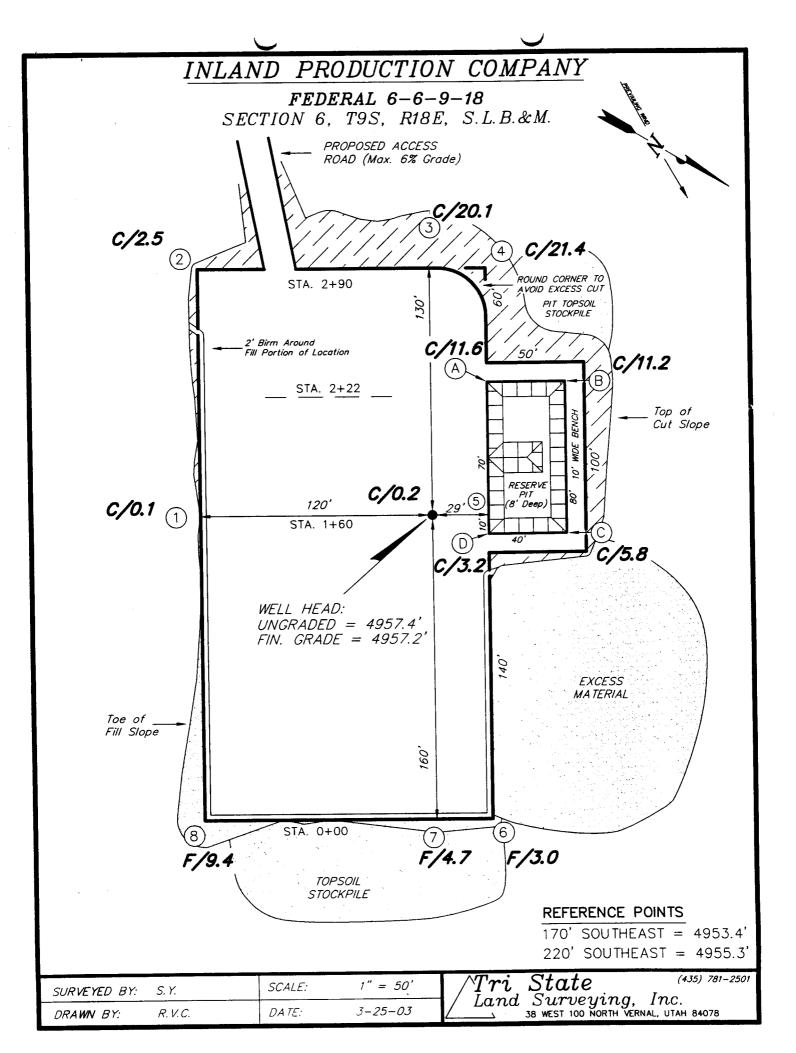
#### **Certification**

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #6-6-9-18 SE/NW Section 6, Township 9S, Range 18E: Lease UTU-65970 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date

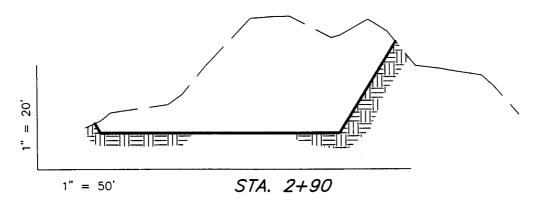
Mandie Crozier Regulatory Specialist

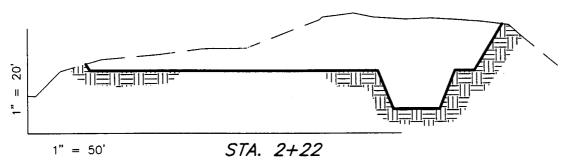


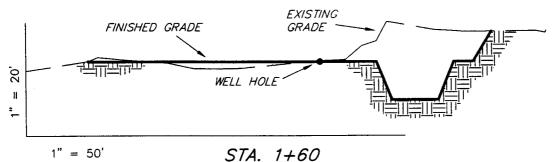
# INLAND PRODUCTION COMPANY

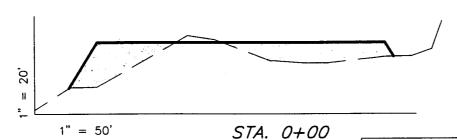
CROSS SECTIONS

FEDERAL 6-6-9-18









NOTE: UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1

(Expressed in Cubic Yards)							
ITEM	CUT	FILL	6" TOPSOIL	EXCESS			
PAD	8,260	2,930	Topsoil is not included	5,330			
PIT	640	0	in Pad Cut	640			
TOTALS	8,900	2,930	890	5,970			

SURVEYED BY:	S. Y.	SCALE:	1" = 50'
DRAWN BY:	R. V.C.	DATE:	3-25-03

Tri State (435) 781-2501

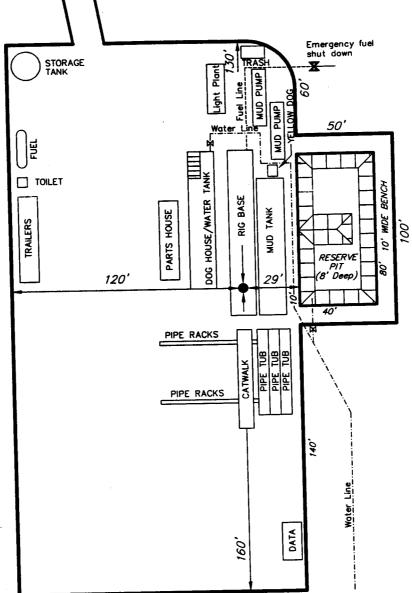
Land Surveying, Inc.

38 WEST 100 NORTH VERNAL, UTAH 84078

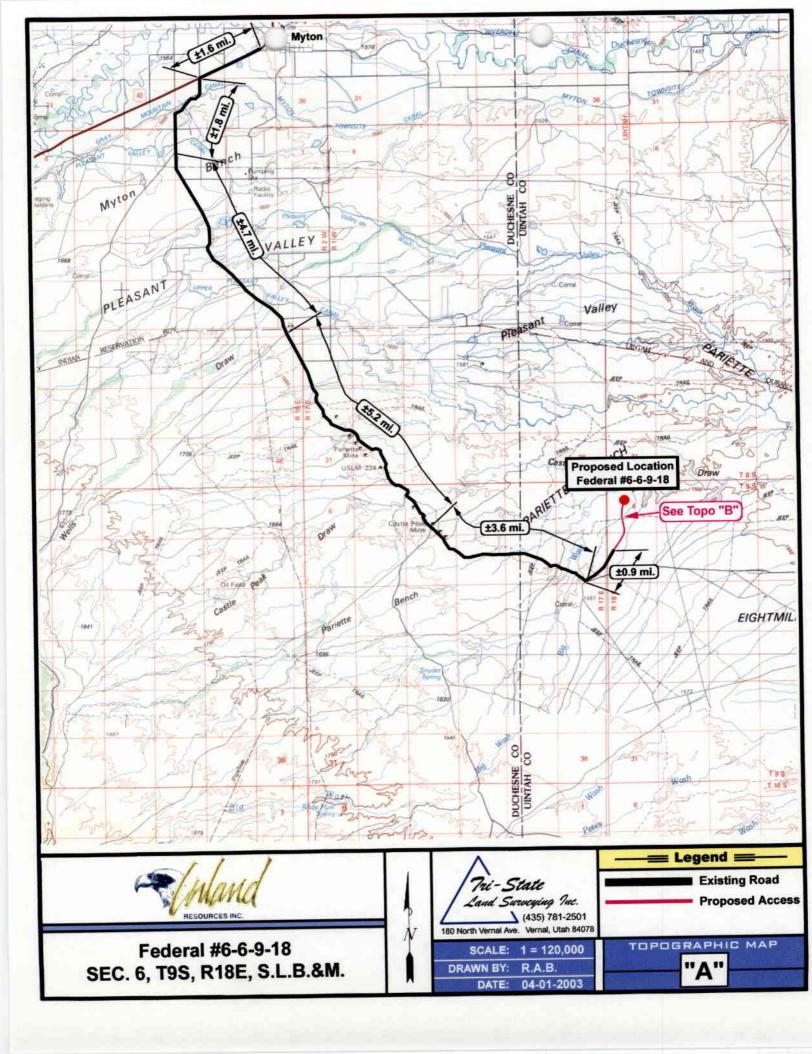
# INLAND PRODUCTION COMPANY TYPICAL RIG LAYOUT

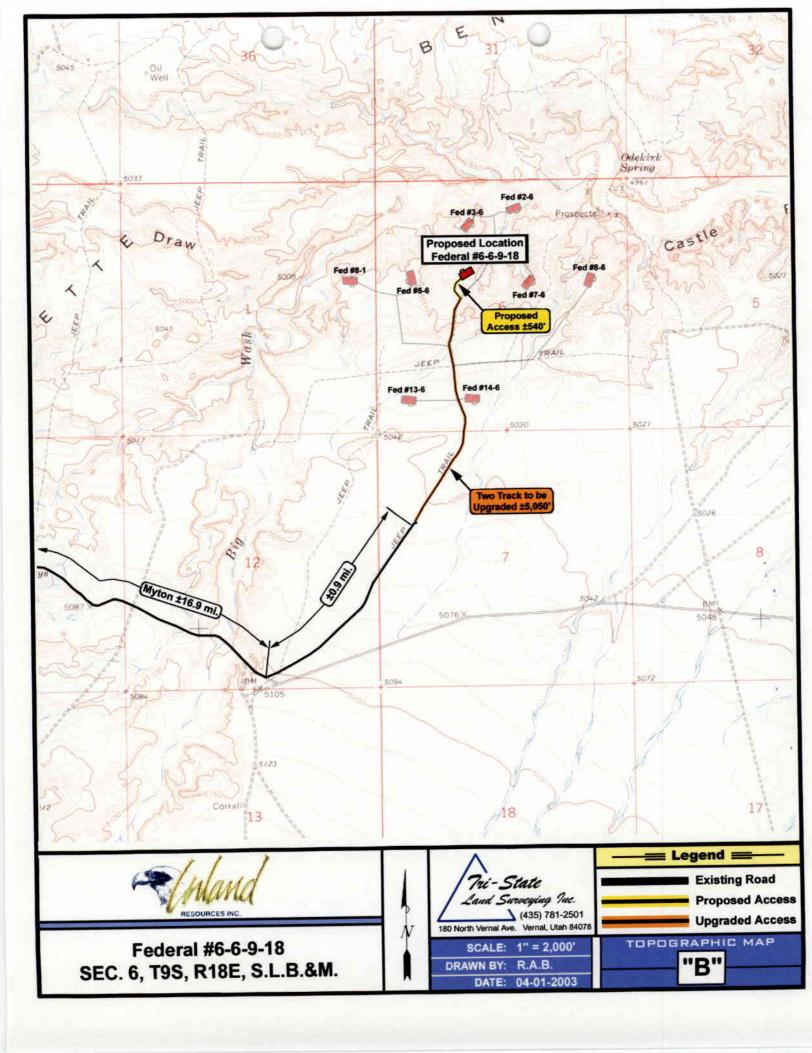
FEDERAL 6-6-9-18

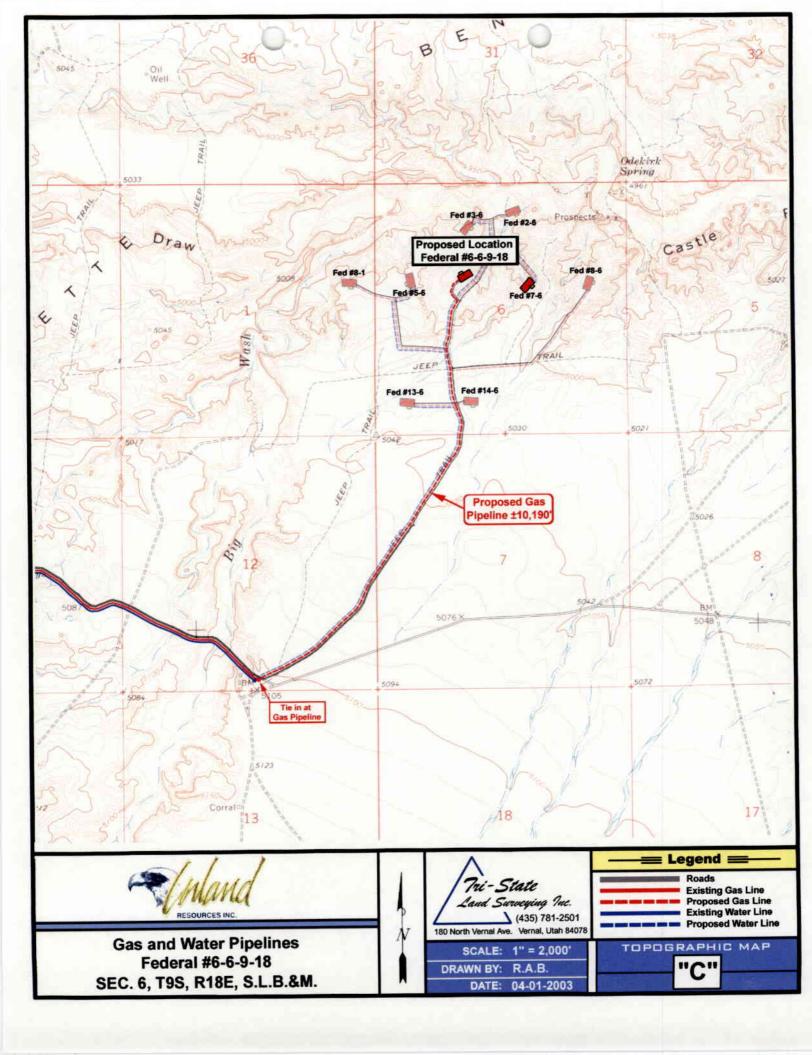
\_ PROPOSED ACCESS ROAD (Max. 6% Grade)

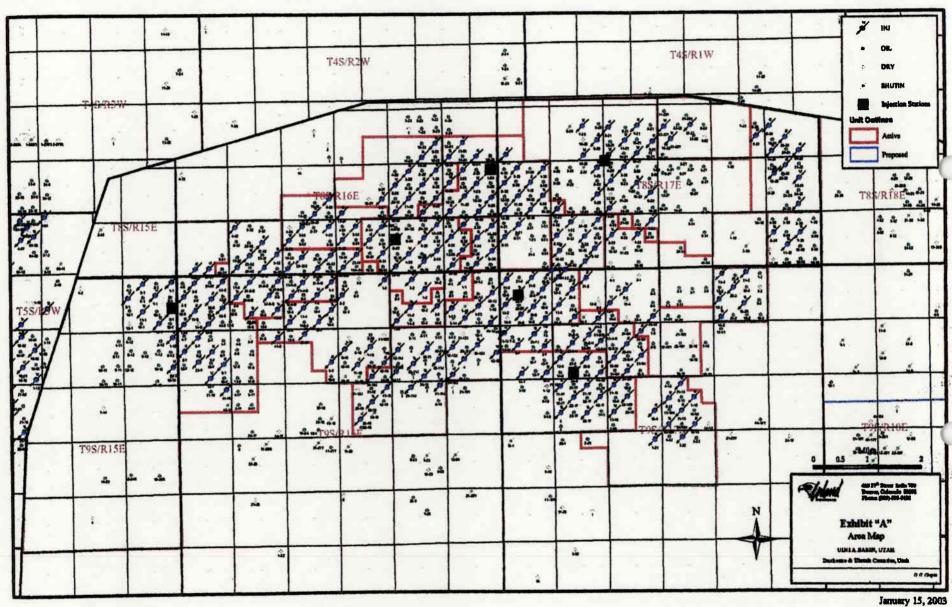


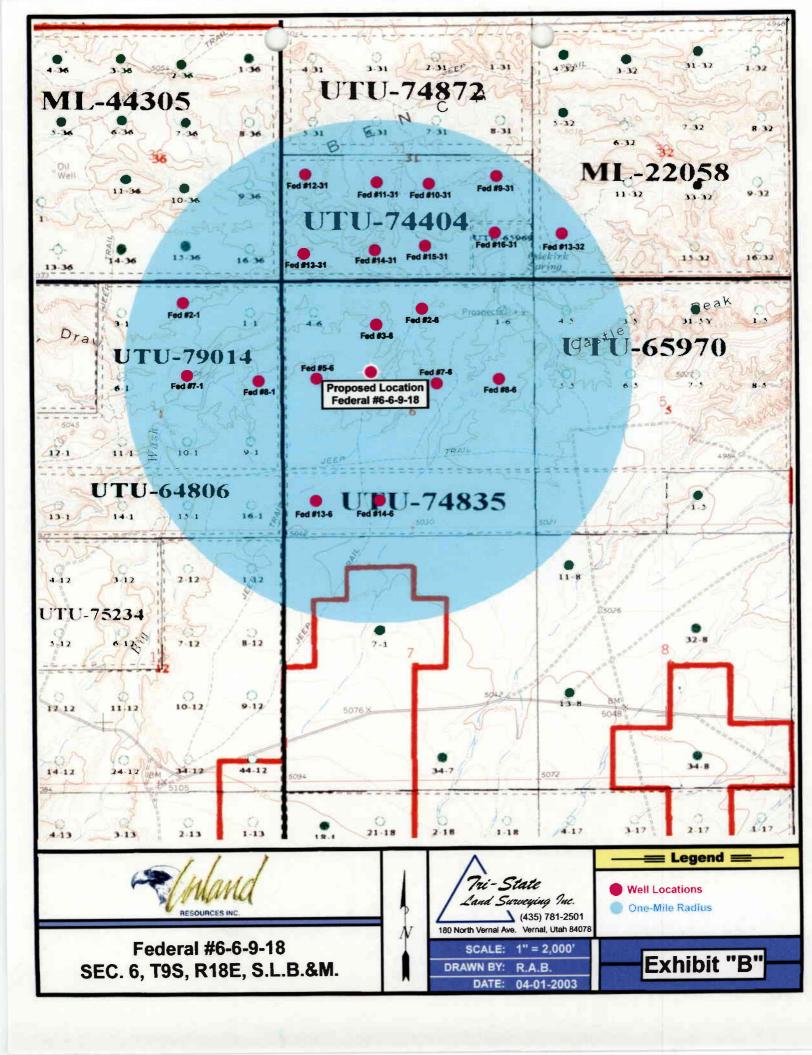
SURVEYED BY: S.Y.	SCALE:	1" = 50'	igwedge Tri State igwedge State Surveying, Inc.	2501
DRAWN BY: R.V.C.	DATE:	3-25-03	38 WEST 100 NORTH VERNAL, UTAH 84078	





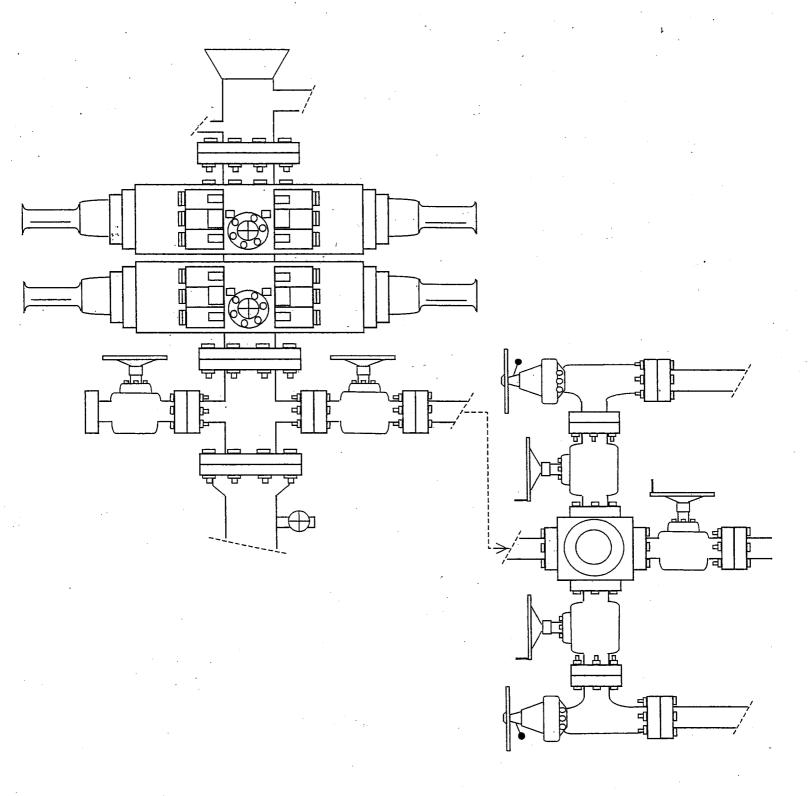






### 2-M SYSTEM

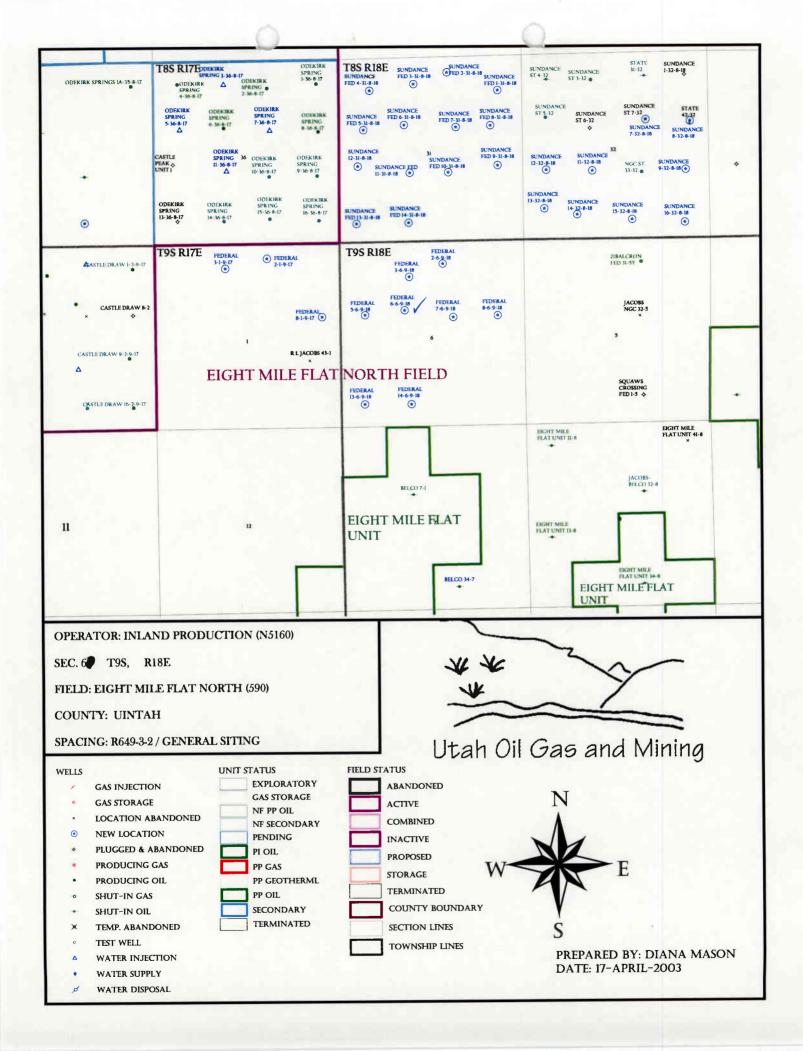
Blowout Prevention Equipment Systems



**EXHIBIT C** 

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/17/2003	API NO. ASSIGNED: 43-047-34933
WELL NAME: FEDERAL 6-6-9-18  OPERATOR: INLAND PRODUCTION ( N5160 )  CONTACT: MANDIE CROZIER	PHONE NUMBER: 435-646-3721
PROPOSED LOCATION: SENW 06 090S 180E	INSPECT LOCATN BY: / /
SENW 06 090S 180E SURFACE: 1935 FNL 1846 FWL BOTTOM: 1935 FNL 1846 FWL	Tech Review Initials Date
UINTAH 8 MILE FLAT NORTH ( 590 )	Engineering Geology
LEASE TYPE: 1 - Federal	Surface
LEASE NUMBER: UTU-65970  SURFACE OWNER: 1 - Federal  PROPOSED FORMATION: GRRV	LATITUDE: 40.06180  LONGITUDE: 109.93837
RECEIVED AND/OR REVIEWED:  Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. 4488944 )  Potash (Y/N)  Al Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. MUNICIPAL )  RDCC Review (Y/N)  (Date:)  All Fee Surf Agreement (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit  R649-3-2. General     Siting: 460 From Qtr/Qtr & 920' Between Wells  R649-3-3. Exception  Drilling Unit     Board Cause No:     Eff Date:     Siting:  R649-3-11. Directional Drill
Sop Siperate file  Stipulations: 1- Edusa O Approva O  2 Spain (Stip	





Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

April 21, 2003

Inland Production Company Route #3, Box 3630 Myton, UT 84052

Re:

Federal 6-6-9-18 Well, 1935' FNL, 1846' FWL, SE NW, Sec. 6, T. 9 South, R. 18 East,

Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34933.

Sincerely,

John R. Baza

Associate Director

pab Enclosures

cc:

**Uintah County Assessor** 

Bureau of Land Management, Vernal District Office



<b>Operator:</b>	Inland Production Company				
Well Name & Number	Federal	6-6-9-18			
API Number:	43-047	-34933			
Lease:	UTU-6	5970			
Location: <u>SE NW</u>	Sec. 6	<b>T.</b> 9 South	R. 18 East		

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires December 31, 1991

0 0 5	UNITED STATES DEPARTMENT OF THE INTE
٠	BUREAU OF LAND MANAGEM

05 DEPAR	TMENT OF THE	IE INTERIOR			5. LEASE DESIGNATION AND SERIAL NO. UTU-65970 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
APPLICATION FOR PE	RMIT TO DRIL	L, DEEPEN, OR P	LUG BACK		N/A	
TYPE OF WORK DRILL	X DEEPEN				7. UNIT AGREEMENT NAME N/A	
o. TYPE OF WELL  OIL GAS  WELL  WELL	OTHER	SINGEL	MULTIPLE ZONE	٦	8. FARM OR LEASE NAME WELL NO Federal #6-6-9-18	
VELL X WELL  NAME OF OPERATOR  Inland Production Company	OTREK				9. API WELL NO. 43 147 34933	_
. ADDRESS OF OPERATOR Route #3 Box 3630, Myton, U	Г 84052	Phone: (	(435) 646-3721		Eight Mile Flat	
Route #3 Box 3630, Myton, U. LOCATION OF WELL (Report location of the SE/NW At proposed Prod. Zone	learly and in accordance with 1935' FNL 1846'	th any State Four Equirements ()			AND SURVEY OR AREA SE/NW Sec. 6, T9S, R18E	
4. DISTANCE IN MILES AND DIRECTION FRO Approximately 17.8 miles sou	M NEAREST TOWN OR POST	TOFFICE* APR 1	<b>6</b> 2003		Uintah 13. STATE UT	_
5. DISTANCE FROM PROPOSED* LOCATION OR LEASE LINE, FT. (Also to		16. NO OF ACRES IN LEASE 3 y  1.036.24		RES ASSIGNEI	O TO THIS WELL	
Approx. 1846' f/lse line 18. DISTANCE FROM PROPOSED LOCATION* DRILLING, COMPLETED, OR APPLIED FOR	TO NEAREST WELL, ON THIS LEASE, FT.	19. PROPOSED DEPTH	20. ROTARY O		DLS	
Approx. 1086' 21. ELEVATIONS (Show whether DF, RT, GR, etc.	.)	6500'		22. APPR	ox. date work will start* Duarter 2003	
4957' GR	CEMENTING PROC	DAM		1514 4		
23. PROPOSED CASING AND			SETTING DEPTH	QUANTI	TY OF CEMENT	
SIZE OF HOLE	SIZE OF CASING WI	EIGHT/FOOT				
Refer to Monument Butte Fie	eld SOP's Drilling	Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

If proposal is to drill or deposed directionally, give p	ertigent data on subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations and measured and true vertical of the subsurface locations are subsurface locations and the subsurface locations are subsurface locations are subsurface locations are subsurface locations are subsurface locations and the subsurface locations are subsurface locations and the subsurface locations are	<i>(1)</i>	115/03
(This space for Federal or State office use)			TICE OF APPROVAL
PERMIT NO.	APPROVAL DATE applicant holds legal or equitable title to those rights in the subject lease which w		
CONDITIONS OF APPROVAL, IF ANY:	, Assistant Fiel		4
21	Mineral Re		la i
APPROVED BY	Mece	DATE // J/	RECEIVED
Contract of the		•	
			APR 1 5 2004

\*See Instructions On Reverse Side

DIV. OF OIL, GAS & MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL ATTACHED

3450+59A

COAs Page 1 of 2 Well No.: Federal 6-6-9-18

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: <u>Inland Production Company</u> .
Well Name & Number: Federal 6-6-9-18
API Number43-047-34933
Lease Number: U-65970
Location: SENW Sec. 6 T.98 R. 18E
Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

### CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

Please submit to this office, in LAS format, an electronic copy of all logs run on this well This submission will replace the requirement for submittal of paper logs to the BLM.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435)

(435) 828-7874

Petroleum Engineer

Kirk Fleetwood

(435) 828-7875

Petroleum Engineer

BLM FAX Machine (435) 781-4410

COAs Page 2 of 2 Well No.: Federal 6-6-9-18

# CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

- -No construction or drilling shall be allowed during the ferruginous hawk nesting season (March 1 to July 15), without first consulting the BLM biologist. If the nest is inactive, drilling will be allowed.
- -A BLM approved paleontologist shall monitor all areas of bedrock exposure during the construction of the access road and well pad.
- -To reduce noise levels in the area, a hospital muffler or multi-cylinder engine shall be installed on the pumping unit.
- -The reserve pit shall be lined with felt prior to installing the one piece, nylon reinforced plastic liner.

• FORM 3160-5

Conditions of approval, if any:

CC: Utah DOGM

#### NITED STATES DEPARMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM	APPRO	١	/E	D	

TOKM	ALLIC	, , ,,,	•
Budget	Bureau	No.	1004-013

Budget E	Bureau No.	1004-013
Expires:	March 31,	1993

_	(June	1990)	

<b>6</b>	SUNDRY NOTICES AND	REPORTS ON WELLS	UTU-65970
Do not use	this form for proposals to drill or to dee Use "APPLICATION F	pen or reentry a different reservoir. OR PERMIT -" for such proposals	6. If Indian, Allottee or Tribe Name  NA
4*		TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
1 X 1	oil Gas Vell Other	•	8. Well Name and No.  FEDERAL 6-6-9-18  9. API Well No.
2. Name of Ope INLAN	rator ND PRODUCTION COMPANY		43-047-34933  10. Field and Pool, or Exploratory Area
4. Location of V	Sox 3630, Myton Utah, 84052 435-6 Well (Footage, Sec., T., R., m., or Survey Description)		11. County or Parish, State  UINTAH COUNTY, UT.
1935 F		n 6, T9S R18E TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
T	YPE OF SUBMISSION	TYPE O	F ACTION
	X Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Permit Extension	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
ally drilled, Inland	d Production Company requests to eval date was 4/21/03 (expiration	to extend the Permit to Drill this well a 4/21/04).	
	Oil, G	as and minking	RECE:
ರಿಡ	ios CHO	<i>&gt;&gt;</i>	RECEIVED  APR 1 6 2004  DIV. OF OIL, GAS & MINING
14. I hereby ce Signed	retify that the foregoing is the and correct  Mandie Crozier	Title Regulatory Specialist	Date 4/8/2004
CC: UT	AH DOGM		
-	ace for Federal or State office use)	Title	Date
Approv	Eu Uy		

# Application for Permit to Drill Request for Permit Extension Validation (this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-34933 Well Name: Federal 6-6-9-18 Location: SE/NW Section 6, T9S R18E Company Permit Issued to: Inland Production Company Date Original Permit Issued: 4/21/2003					
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.					
Following is a checklist of some items related to the application, which should be verified.					
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes□No□ 介Α					
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No →					
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No▶					
Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes□No ☑					
Has the approved source of water for drilling changed? Yes□No⊠					
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No⊅					
ls bonding still in place, which covers this proposed well? Yes No□					
Manchi Croyan 4/8/2004 Signature Date					
Signature Date					
Title: Regulatory Specialist					
Representing: Inland Production Company					

# DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company:	INLAND P	RODUCTION C	<u>OMPANY</u>
Well Name:	FEDERAL	6-6-9-18	
Api No: 43-047-3493	33	Lease Type:	FEDERAL
Section <u>06</u> Township	<b>09S</b> Range	18E County_	UINTAH
Drilling Contractor	ROSS DRILLIN	NG RIO	G #15
SPUDDED:			
Date	04/24/04		
Time	12:00 PM		
How	DRY	_	
Drilling will commend	ce:		
Reported by	RAY HERRE	CRA	
Telephone #	1-435-823-199	00	
Date <u>04/26/2004</u>	Signed	CHD	

FORM 3160-5	UN	ÆD STATES			FORM APPROV	ED	
(June 1990)					Budget Bureau No. 1004-0135		
	BUREAU OF I	AND MANAGEM	ENT	·	Expires: March 3		
008	SUNDRY NOTICES ANI	PEDARTS	ONWELLS	ŀ	se Designation and TU-65970	l Serial No.	
Do not use this	form for proposals to drill or to dee Use "APPLICATION F	OR PERMIT -"	for such proposals	6. If In	idian, Allottee or Ti	ribe Name	
				7. If U	Jnit or CA, Agreen	nent Designation	
	SUBMIT IN	TRIPLICAT	E	N	/ <b>A</b>		
1. Type of Well				9 Wel	l Name and No.		
X Oil Well	Gas Well Other			1	EDERAL 6-	6-9-18	
					Well No.	-	
2. Name of Operator				<u> </u>	3-047 <b>-</b> 34933		
	PRODUCTION COMPANY		: : : : : : : : : : : : : : : : : : :		ld and Pool, or Exp	oloratory Area E FLAT NORTH	
3. Address and Teleph		46-3721			unty or Parish, Stat		
	3630, Myton Utah, 84052 435-6 Footage, Sec., T., R., m., or Survey Description)	40-3721			anty of Farish, Gan	~	
	1846 FWL SE/NW Section	n 6, T9S R18E		U	INTAH CO	UNTY, UT	
12.	CHECK APPROPRIATE BOX(s)	TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTI	HER DATA		
	E OF SUBMISSION		TYPE OF	ACTION		·	
	The grant	Abandons	<del>-</del>	_	Change of Plans	•	
	Notice of Intent	Recomple			New Constructi		
	X Subsequent Report	Plugging	Back		Non-Routine Fr	-	
		Casing Re		-	Water Shut-Off		
•	Final Abandonment Notice	Altering (	Casing Spud Notice	<u> </u>	Conversion to In Dispose Water	njection	
		LA Other	Space Notice	(Note: I	<b>-</b>	iple completion on Well	
		<u> </u>		Comple	tion or Recompletion	Report and Log form.)	
13. Describe Proposed o	r Completed Operations (Clearly state all pertinent details	, and give pertinent dates, i	ncluding estimated date of starting any proposed w	vork. If well is di	rection-		
ally drilled, give s	ubsurface locations and measured and true vertical depths	for all markers and zones p	pertinent to this work.)*				
		_				0 5 (0H T 55	
	4. MIRU Ross # 15. Dr						
24 # csgn.	. Set @ 323'/ KB. On	4-26-04. Co	ement with 150 sks o	of class	"G" w/ 2	2% CaCL2 +	
1/4# als C	Cello- Flake Mixed @ 1	5 & nng > 1	17 cf/ sk veild Ret	turned (	6 bbls co	ement to pit.	
	ello- Flake Mixed @ 1	o.o ppg > 1	on bk your. Ito	, and the same		v- F	
WOC.					_		
					REC	CEIVED	
					MAY	0 4 2004	
			÷				
					DIV. OF OIL	., GAS & MINING	
14. I hereby certify the	hat the foregoing is true and correct						
Signed	Janu-	Title	Drilling Foreman		Date	5/2/2004	
J	Pat Wisener						
CC: UTAH I					· — — — — — — — — — — — — — — — — — — —		
	Federal or State office use)						
Approved by	,	Title			Date		
C	1 :6				•		

CC: Utah DOGM

## INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

DATUM TO CUT OFF CASING  DATUM TO BRADENHEAD FLANGE  TD DRILLER  318  LOGGER  HOLE SIZE  12 1/4  LOG OF CASING STRING:  PIECES  OD  ITEM - MAKE - DESCRIPTION  WHI - 92 csg head  7  8 5/8"  Maverick ST&C csg  CASING INVENTORY BAL.  TOTAL LENGTH OF STRING  LESS NON CSG. ITEMS  PLUS FULL JTS. LEFT OUT  TOTAL  TO	24# J	RIG#	THREAD  8rd  8rd  8rd				
DATUM TO BRADENHEAD FLANGE  TD DRILLER 318 LOGGER  HOLE SIZE 12 1/4  LOG OF CASING STRING:  PIECES OD ITEM - MAKE - DESCRIPTION WI  44.62' SH jt  WHI - 92 csg head  7 8 5/8" Maverick ST&C csg  GUIDE shoe  CASING INVENTORY BAL. FEET JTS TOT  TOTAL LENGTH OF STRING 313.89 7 LES  LESS NON CSG. ITEMS 1.85 PLU  PLUS FULL JTS. LEFT OUT 0 CAS  TOTAL 312.04 7  TOTAL CSG. DEL. (W/O THRDS) 312.04 7  TIMING 1ST STAGE  BEGIN RUN CSG. Spud 4/25/2004 8:00am GOO	T/FT G  24# J  AL LENGTH S CUT OFF F	RIG#	THREAD  8rd  8rd  8rd  8rd	CONDT	LENG		
TO DRILLER   318	24# J TAL LENGTH S CUT OFF F	-55 OF STR	THREAD  8rd  8rd  8rd  8rd	CONDT	LENG		
LOG OF CASING STRING:   PIECES	24# J TAL LENGTH S CUT OFF F	-55 OF STRI	8rd 8rd 8rd	A			
DOG OF CASING STRING:   PIECES	24# J TAL LENGTH S CUT OFF F	-55 OF STRI	8rd 8rd 8rd	A			
PIECES   OD   ITEM - MAKE - DESCRIPTION   WITEM - MAKE - DESCRIPTION   W	24# J TAL LENGTH S CUT OFF F	-55 OF STRI	8rd 8rd 8rd	A			
PIECES   OD   ITEM - MAKE - DESCRIPTION   WITEM - MAKE - DESCRIPTION   W	24# J TAL LENGTH S CUT OFF F	-55 OF STRI	8rd 8rd 8rd	A			
### ### ##############################	24# J TAL LENGTH S CUT OFF F	-55 OF STRI	8rd 8rd 8rd	A			
WHI - 92 csg head   7	AL LENGTH S CUT OFF F	OF STR	8rd 8rd	Α			
WHI - 92 csg head   7	AL LENGTH S CUT OFF F	OF STR	8rd 8rd	Α			
WHI - 92 csg head   7	AL LENGTH S CUT OFF F	OF STR	8rd 8rd	Α			
7         8 5/8"         Maverick ST&C csg         Z           GUIDE shoe           CASING INVENTORY BAL.         FEET JTS TOT           TOTAL LENGTH OF STRING         313.89         7         LES           LESS NON CSG. ITEMS         1.85         PLU           PLUS FULL JTS. LEFT OUT         0         CAS           TOTAL         312.04         7           TOTAL CSG. DEL. (W/O THRDS)         312.04         7           TIMING         1ST STAGE           BEGIN RUN CSG.         Spud         4/25/2004         8:00am	AL LENGTH S CUT OFF F	OF STR	8rd 8rd	Α			
GUIDE   shoe	AL LENGTH S CUT OFF F	OF STR	8rd				
CASING INVENTORY BAL.         FEET         JTS         TOT           TOTAL LENGTH OF STRING         313.89         7         LES           LESS NON CSG. ITEMS         1.85         PLU           PLUS FULL JTS. LEFT OUT         0         CAS           TOTAL         312.04         7           TOTAL CSG. DEL. (W/O THRDS)         312.04         7           TIMING         1ST STAGE           BEGIN RUN CSG.         Spud         4/25/2004         8:00am	S CUT OFF F			<u> </u>			
TOTAL LENGTH OF STRING  LESS NON CSG. ITEMS  PLUS FULL JTS. LEFT OUT  TOTAL  TOTAL  TOTAL  TOTAL CSG. DEL. (W/O THRDS)  TIMING  BEGIN RUN CSG.  Spud  313.89  7  LES  PLU  CAS  7  TIMING  1ST STAGE  BEGIN RUN CSG.  Spud  4/25/2004  8:00am  GOO	S CUT OFF F		NG				
LESS NON CSG. ITEMS	S DATUM TO	JECE					
PLUS FULL JTS. LEFT OUT  TOTAL  TOTAL  TOTAL  TOTAL CSG. DEL. (W/O THRDS)  TIMING  BEGIN RUN CSG.  Spud  4/25/2004  CAS  TIMING  BEGIN RUN CSG.  Spud  GOO  GOO  GOO  GOO  GOO  GOO  GOO  G		TOUT	OFF CSG	LESS CUT OFF PIECE			
TOTAL 312.04 7  TOTAL CSG. DEL. (W/O THRDS) 312.04 7  TIMING 1ST STAGE  BEGIN RUN CSG. Spud 4/25/2004 8:00am GOO	SING SET DE		OFF CSG		3		
TOTAL CSG. DEL. (W/O THRDS) 312.04 7  TIMING 1ST STAGE  BEGIN RUN CSG. Spud 4/25/2004 8:00am GOO		F 1111					
TIMING         1ST STAGE           BEGIN RUN CSG.         Spud         4/25/2004         8:00am         GOO	COMPARE						
BEGIN RUN CSG. Spud 4/25/2004 8:00am GOO	OWIFARE						
	OD CIRC THE	RULIOB		YES			
	S CMT CIRC T		***************************************		ent to pit		
	CIPROCATED				<u> </u>		
	BACK PRES			 N/A			
	MPED PLUG				20 PS		
PLUG DOWN Cemented 4/26/2004							
CEMENT USED CEMENT COMPAI	NY- B.	J.					
STAGE #SX CEMENT TYPE &							
1 150 Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake	mixed @ 15.	.8 ppg 1.	17 cf/sk yie	ld			
CENTRALIZER & SCRATCHER PLACEMENT	SHO	W MAKI	E & SPACII	NG	ECEIVE		
Centralizers - Middle first, top second & third for 3				H	COLIT		
				. N	1AY 0 4 200		
					OF OIL, GAS &		

82	STATE OF UTAH
Ø	DIVISION OF OIL, GAS AND MINING
Ä	<b>ENTITY ACTION FORM -FORM 6</b>

OPERATOR: INLAND PRODUCTION COMPANY ADDRESS: RT. 3 BOX 3630 MYTON, UT 84952

OPERATOR ACCT, NO.

N5160

ACTR		NEW	APINUMBER	WELLNAME							
600	E ENTITY NO.	ENTITY NO.			H	<del></del>		LOCATION		\$PU0	EFFECTIVE
A	99999	14152	45.047.0000		<u>~</u>	- SC	TP	RG	COUNTY	DKTE	DATE
MET	COMMENTS:		43-047-34933	Federal 6-6-9-18	SENW	6	98	18E	Uintah	April 24, 2004	5/13/14
		GPRI	1			_				1 79/11 24, 2004	19/15/09
ACTIO	CURRENT	NEW	AFI NUMBER		<del></del>						
! 7	ENTITY NO.	ENTITY NO.		WALL NAME	90	\$c	MELL LOCAT	_		SPUD	EFFECTIVE
B	99999	12276	43-013-32219	Wells Down 6 55 6 45			TP	RG_	COUNTY	DATE	DATE
WELL:	COMMENTS	GREV		Wells Draw 8-32-8-16	SEINE	32	88	16E	Duchesne	April 27, 2004	5/12/04
L		OPDI									
ACTIO		NEW	API HUMBER	MET NAME							
A	EALLIANO"	ENTITY NO.			90			DEATION		SPUD	EFFECTIVE
AF	99999	14153	43-047-35183			<u>&amp;c</u>	TP .	RA	COUNTY	DATE	DATE
	COMMENTS:	GRRU	40 041 33 103	Federal 9-6-9-18	ME/SE	6	98	18E	Duchesne	May 1, 2004	5/13/04
İ		OKM									
ACTION	CUARENT	MEW	APINUMBER	WELLNAME							
	<del> </del>	<del>                                     </del>					METE	CATION		SP VO	EFFECTIVE
_ <u>B</u>	99999	12299	43-047-34571	Canvasback 2-23-8-17	Ambrinas						DATE
WELL 4	COMMENTS:	RRU			NVVINE	23	85	17E	Untah	May 4, 2004	5/13/04
		/O/- V									, –
" )	CURRENT ENTITY NO.	MEN ENTITY NO.	API IRANBER	WELL NAME			WELL LO	CATION	<del></del>		
		2411111111			00	SC 38	_ TP	RE	COUNTY	SPUD	EFFECTIVE
	1	ı f	i							DATE	DATE
<u>" )</u>	COMMENTS						j		į.		- OKIE

DIV. OF OIL, GAS & MINING

	13160-5
(June	1990)

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

# LINCED STATES

FORM	APPRO	VEI	)
Budget	Bureau	No.	1004-013

**EIGHT MILE FLAT NORTH** 

HINTAU COUNTY IIT

11. County or Parish, State

T)ICIAI 2100-2		<u> </u>	
June 1990)	DEPARTMENT OF THE INTERIOR	Budget Bureau No. 1004-0135	
•	BUREAU OF LAND MANAGEMENT	Expires: March 31, 1993	
4 0		5. Lease Designation and Serial No.	
10	SUNDRY NOTICES AND REPORTS ON WELLS	UTU-65970	
Do not use this	form for proposals to drill or to deepen or reentry a different reservoir.	6. If Indian, Allottee or Tribe Name	
	Use "APPLICATION FOR PERMIT -" for such proposals	NA	
		7. If Unit or CA, Agreement Designation	
	SUBMIT IN TRIPLICATE	N/A	
Type of Well  X Oil Well	Gas Well Other	8. Well Name and No. FEDERAL 6-6-9-18	
		9. API Well No. 43-047-34933	
Name of Operator	BDODICTION COMPANY	10. Field and Pool, or Exploratory Area	

1935 FNL 1846 FWL SE/NW Section	n 6, 198 KISE	UNIAN COUNTY, OT
2. CHECK APPROPRIATE BOX(s) TYPE OF SUBMISSION	TO INDICATE NATURE OF NOTICE, REPORT TYPE	ORT, OR OTHER DATA
Notice of Intent  X Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Weekly Status Report	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On 4-29-04 MIRU Eagle # 1. Set equipment. Pressure test Bop's, Kelly, & TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU BHA and tag cement @ 275'. Drill out cement & shoe. Continue to drill a 77/8" hole with fresh water to a depth of 5950'. Lay down drill string, BHA. Open hole log from TD to surface. PU & MU guide shoe, 1 jt 51/2" J-55 15.5 # csgn. Float collar, & 134 Jt's 51/2" J-55 15.5# csgn. Set @ 5949'/ KB. Cement with 300 sks Prem Lite 11 w/ 3% KCL, 8 % Gel, 5#"s sk CSE, 3#'s sk Kolseal, .8% Sms, 1/2# sks Celloflake. Mixed @ 11.0 ppg, >3.42 yld. Followed by 400 sks 50/50 Poz w/ 3% KCL, 2% Gel, .05% Static free, 1/2# sk Celloflake. Mixed @ 14.4 ppg, > 1.24 yld. Returned 20 bbls cement to pit. Nipple down BOP's. Drop slips @ 80,000 # 's tension. Clean pit's & release rig on 5-05-04

	3				the state of the s	
14. I hereby certify that	the foregoing is true and correct	Title	Drilling Foreman	Date	5/9/2004	
	Pat Wisener					
CC: UTAH DO	GM ·					
(This space for Fed	deral or State office use)					
Approved by		Title		Date	RECEIV	
Conditions of appr	roval, if any:					
CC: Utah DOGM					MAY 1.1.2004	

## INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

			<u>5 1/2"</u>	CASING SET	AT	5949.77	•		
					Fit clir @	5923			
LAST CASIN	G <u>8 5/8"</u>	SET A	AT 323'		OPERATOR		Inland Pro	duction Cor	npany
DATUM	12'/ KB			·	WELL	Federal 6-	6-9-18		
DATUM TO C	CUT OFF CA	SING _	12		FIELD/PROS	SPECT _	Monumen	t Butte	
DATUM TO E	BRADENHEA	D FLANGE			CONTRACT	OR & RIG#		Eagle #1	······
TD DRILLER	5950	LC	GGER	5947'					
HOLE SIZE									
LOG OF CAS	SING STRING	G:							
PIECES	OD	ITEM -	MAKE - DESCI	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt							1
		6' @	4151'			·			
134	5 1/2"	IPS LT & C			15.5#	J-55	8rd	Α	5911.5
		Float collar							0.
1	5 1/2"	IPS LT&C c	sg		15.5#	J-55	8rd	Α	2
			GUIDE	shoe			8rd	A	0.6
CASING INV	ENTORY BA	L.	FEET	JTS	TOTAL LENGTH OF STRING				
TOTAL LENG	STH OF STR	RING	5951.77	135	LESS CUT OFF PIECE				
LESS NON CSG. ITEMS			15.25		PLUS DATUM TO T/CUT OFF CSG				1
PLUS FULL	JTS. LEFT C	UT	89.19	2	CASING SET DEPTH 594				5949.7
	TOTAL	-	6025.71	137	J				
TOTAL CSG	. DEL. (W/O	THRDS)	6025.71	137	COMPARE				
TIMING			1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		5/4/2004	7:00 PM	GOOD CIRC THRU JOB Yes				
CSG. IN HO	E		5/4/2004	10:00 PM	Bbls CMT CIRC TO SURFACE 20 bbls				
BEGIN CIRC	;		5/4/2004	10:00 PM	RECIPROCATED PIPE I N/ATHRUSTROKE				
BEGIN PUM	P CMT		5/4/2004	11:00 PM	DID BACK PRES. VALVE HOLD ? Yes				
BEGIN DSPI	L. CMT		5/4/2004	11:55 PM	BUMPED P	LUG TO _		2067	PSI
PLUG DOW	N		5/5/2004	1:20 AM	ļ ·				
CEMENT US	SED			CEMENT CO	MPANY-	B. J.			
STAGE	# SX			CEMENT TY	PE & ADDITI	VES			
1 300 Premlite II w/ 10% gel + 3 % KCL, 3#s /					sk CSE + 2# :	sk/kolseal +	1/2#'s/sk Ce	llo Flake	
		mixed @ 11	1.0 ppg W / 3.4	3 cf/sk yield					
2 400 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1					1,1/4# sk C.F	. 2% gel. 3%	SM mixed	@ 14.4 ppg W	/ 1.24 YLD
CENTRALIZ	ER & SCRA	TCHER PLA	CEMENT			SHOW MA	KE & SPACI	NG	
Centralizer	s - Middle fi	rst, top sec	ond & third. Th	nen every thir	d collar for a	a total of 20	).		

COMPANY REPRESENTATIVE Pat Wisener

FORM 3160-5 (September 2001)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM A	PPROVED
OMB No.	1004-0135
Expires Janu	uary 31.200

1) 1 1 Do not use t	/ NOTICES AND REPOR his form for proposals to d ell. Use Form 3160-3 (APD		UTU65970 6. If Indian, Allottee or Tribe Name.				
SUBMIT IN T	RIPLICATE - Other Instr		e	7. If Unit or CA/A	Agreement, Name and/or No.		
1. Type of Well	•			EIGHT MILE F			
Oil Well Gas Well  Name of Operator	Other			8. Well Name and FEDERAL 6-6-			
Inland Production Company				9. API Well No.	<del>7-</del> 18		
a. Address Route 3 Box 3630	1	3b. Phone No. (include are o	ode)	4304734933			
Myton, UT 84052  Location of Well (Footage, Sec	c., T., R., M., or Survey Description	435.646.3721		10. Field and Poo Monument Butt	l, or Exploratory Area e		
1935 FNL 1846 FWL		•		11. County or Par	11. County or Parish, State		
SE/NW Section 6 T9S R18	E			Uintah,UT			
12. CHECK	APPROPRIATE BOX(ES	) TO INIDICATE NA	TURE OF N	OTICE. OR OT	HER DATA		
TYPE OF SUBMISSION		ТҮРЕ	OF ACTION	1			
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Treat New Construction Plug & Abandon	Reclama Recomp		Water Shut-Off Well Integrity Other Weekly Status Report		
Final Abandonment Notice	Convert to Injector	Plug Back	☐ Water D	•			
(5575-5592') (All 4 JSPF (5030-5047'), (5012-5018 (4 JSPF). Composite flow was moved on well on 5/2 for sand cleanup. A BHA	tervals were #1 (5740-5754'); #3 (5298-5309'), (4 JSPF3'), (4975-4983') (All 4 JSPF4-through frac plugs were us 20/04. Bridge plugs were draw production tbg string were un in well on sucker rods.	i); #4 (5205-5220'), (5 F); #6 (4836-4848') (4 sed between stages. Frilled out. Well was cleare run in and anchored	155-5161') JSPF); #7 ( acs were flow aned out to in well. Er	, (5134-5151') (, 4382-4392'), (4 wed back throug PBTD @ 5925' ad of tubing strin	All 4 JSPF); #5 JSPF); #8 (4279-4289') gh chokes. A service rig . Zones were swab tested ag @ 5815.27'. A new 1		
I hereby certify that the foregoing i					GAS & MIL.		
Name <i>(Printed/ Typed)</i> Martha Hall	s true and correct	Title			OL, GAS & MINI		
Signature	s true and correct	Title Office Manager			MINI		
Y 1 / 1 A 7 A 9	s true and correct				GAS & MINI		
y (	$\sim 100$	Office Manager Date	en diam	Lege, 200	GAS & MINI		

July 12, 2004

State of Utah, Division of Oil, Gas and Mining Attn: Ms. Carol Daniels P.O. Box 145801 Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels

Federal 6-6-9-18 (43-047-34933) Uintah County, Utah

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Pat Grissom of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris Engineering Tech

**Enclosures** 

cc: Bu

Bureau of Land Management Vernal District Office, Division of Minerals

Attn: Edwin I. Forsman 170 South 500 East Vernal, Utah 84078

Well File – Denver
Well File – Roosevelt
Patsy Barreau/Denver
Bob Jewett/Denver
Matt Richmond/Roosevelt

RECEIVED
JUL 1 4 2004

1974, Chrose, CAS & MINING

012

Brian Harris

## **UNITED STATES DEPARTMENT OF THE INTERIOR**

SUBMIT IN DUPI (See other structions ons reverse side)

FE\* FORM APPROVED OMB NO. 1004-0137

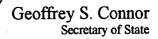
Expires: February 28, 1995

BDH

012		DEPAR	TME	NT OF	THE INTE	RIOR	1010100 31	5. LEASE DESI	GNATION A	AND SERIAL NO.		
		BURE	AU OF	LAND	MANAGEME	NT		( IT D/DIV		-65970		
WELL	COMPL	ETION	OR R	ECOM	PLETION I	REPORT A	ND LOG*	6. IF INDIAN,		OR TRIBE NAME		
a. TYPE OF WORK		OIL WELL	X	GAS WELL	DRY	Other		7. UNIT AGRE	EMENT NA	ME		
b. TYPE OF WELL								8. FARM OR L	EASE NAM	IE. WELL NO.		
NEW WORK PERSON PLUC DIFF								l 6-6-9-18				
NAME OF OPERATOR					- 1	- Onler	<del></del>	9. WELL NO.	Cucia			
ADDRESS AND TELEP	HONE NO	IN	LAND	RESOL	IRCES INC.	<del></del>		10. FIELD AND		7-34933		
ADDRESS AND TEEL		1401 17th	St. Su	ite 1000	Denver, CO	80202		IO. FIELD AND		Mile Flat		
. LOCATION OF WE at Surface at top prod. Interval rep	•					its.*) Twp 9S, Rng 18E	<u> </u>	OR AREA		OCK AND SURVEY		
at total depth		r		14. API NO.		DATE ISSUED	)	12. COUNTY O	R PARISH	13. STATE		
•			<del>.,</del>	<del></del>	-047-34933		21/2003	<del> </del>	ntah	UT		
s. date spudded 4/25/2004	16. DATE T.D. 5/4	reached 1/2004	17. DA		Ready to prod.) 4/2004		df, rkb, rt, gr, et 7' GL	<sup>C.)*</sup> 4969' KE	3	19. ELEV. CASINGHEAD		
0. TOTAL DEPTH, MD &		21. PLUG BAC			22. IF MULTIPL HOW MANY	E COMPL.,	23. INTERVALS DRILLED BY	ROTARY TOOLS		CABLE TOOLS		
5950' 4. PRODUCING INTERV	AL(S) OF THIS	COMPLETION-	5925'	TOM NAME (	MD AND TVD)*		>	<u> </u>	<del></del>	25. WAS DIRECTIONAL		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				River 4279'	-5754'				SURVEY MADE		
6 TYPE ELECTRIC AND	OTHER LOGS	RUN					an a :: 4			27. WAS WELL CORED		
Jual Induction	Guard, S	P, Compe	nsated			ted Neutron, ort all strings set in		Cement Bond	Log	No		
CASING SIZE/	GRADE	WEIGHT,		DEP	TH SET (MD)	HOLE SIZE		MENT, CEMENTING REC	ORD	AMOUNT PULLED		
8-5/8" - 、 5-1/2" - 、		24 15.			324' 5949'	12-1/4" 7-7/8"	<del>                                     </del>	vith 150 sx Class "				
J-1/2 - C	J-33	15.	J#	<u> </u>	3343	1-1/0	300 SX Premi	ite II and 400 sx 50	750 POZ	<u> </u>		
9.		LIN	ER RECC	ORD			30.	TUBING RE	CORD			
SIZE	TOF	(MD)	BOTT	OM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE 2-7/8"	DEPTH SET (M	D)	PACKER SET (MD) TA @		
	<del> </del>						2 770	5815		5654'		
1. PERFORATION REC		size and number				32.		FRACTURE, CEME				
(CP3,4) 5670-	TERVAL 78', 5684-9	1'. 5713-20'	<u>s</u>	IZE	SPF/NUMBEF	E DEPTH INT	ERVAL (MD)	AMOUNT AN	D KIND OF	MATERIAL USED		
(0.0,1,700.0		5740-54'		41"	4/144	5670'	-5754'	Frac w/ 89,424#	20/40 sa	and in 671 bbls. fluid.		
(CP	1,2) 5575-9	2', 5618-26'		41"	4/100		-5626'	Frac w/ 74,643#	20/40 sa	and in 591 bbls. fluid.		
		5298'-5309'		41"	4/44		-5309'			and in 366 bbls. fluid.		
(A1,3) 5134				41"	4/152		-5220'	<del> </del>	# 20/40 sand in 886 bbls, fluid.			
(81,3) 4975		8', 5030-47' 4836'-4848'		41" 41"	4/124 4/48		'-5047' '-4848'		ac w/ 129,767# 20/40 sand in 885 bbls. flui			
		4382'-4392'		41"	4/40		-4392'		rac w/ 49,717# 20/40 sand in 417 bbls. fluid. rac w/ 24,846# 20/40 sand in 268 bbls. fluid.			
(GB6) <b>4279'-</b> 4289'				41"	4/40					Frac w/ 46,393# 20/40 sand in 395 bbls. fluid.		
								· · · · · · · · · · · · · · · · · · ·				
33.* DATE FIRST PRODUCTI	ON	PPODLICTIC	N METUO	D (Flewis =	PRODU				Wells	TATUS (Producing or shut-in)		
5/24/20	004	DURS TESTED			1/2" x 1-1/2" x	( 15.5 ' RHAC OILBBLS.	Pump GASMCF.	WATERBBL.		PRODUCING  GAS-OIL RATIO		
	İ	SOKO IBOTED	Chor	CL SILE	TEST PERIOD		•					
10 day av		ASING PRESSUR	F CATC	ULATED	OIL-BBL.	151 GASMCF.	106	WATERBBL.	OIL CRAV	RECEIVED		
COW, TOBING PRESS.		131140 FRE330K		OUR RATE	OIL-BBL.	dasmer.		WATERBBL.	OIL GRAVI	JUL 1 4 2004		
4. DISPOSITION OF GA	S (Sold, used for	fuel, vented, etc.)	0-1-		l for First	L		TEST WITNES				
5. LIST OF ATTACHMI	ENTS		5010	ı & Usec	for Fuel			<u> </u>	DIV.	OF OIL, GAS & MININ		
36. I hereby certify tha	the foregoing	g and attached in	formation	is complete	and correct as deterr							
SIGNED	ma	#Hum	<u> </u>		TITLE	Engir	neering Tech	nician	DATE	7/12/2004		

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all GEOLOGIC MARKERS 38. drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); TOP DESCRIPTION, CONTENTS, ETC. воттом TOP FORMATION TRUE NAME VERT. DEPTH MEAS, DEPTH 3750' Garden Gulch Mkr Well Name 3924' Garden Gulch 1 Federal 6-6-9-18 Garden Gulch 2 4038' Point 3 Mkr 4294' 4522' X Mkr Y-Mkr 4557' Douglas Creek Mkr 4684' BiCarbonate Mkr 4906' B Limestone Mkr Castle Peak 5500' 5919' Basal Carbonate Total Depth (LOGGERS 5950'





## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

# ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

#### ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

#### ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

Susan G. Riggs, Treasurer



## United States Department of the Interior



BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

#### Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Lloader

Michael Coulthard Acting Chief, Branch of Fluid Minerals

#### Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson
Joe Incardine
Connie Seare

· ·					
UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	·
065914	16539	63073B	73520A	76808	
•	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553·	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013 <sup>.</sup>	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833 <sup>,</sup>	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075	•	
075174	49950	72103	75078		•
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

1, 8

#### Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

013

Change of Operator (Well Sold)

ROUTING

1. GLH 2. CDW

3. FILE

#### Designation of Agent/Operator

#### X Operator Name Change

Merger

The operator of the well(s) listed below	ive:			9/1/2004			]		
FROM: (Old Operator):				<b>TO:</b> ( New O	perator):		5.1		7
N5160-Inland Production Company				N2695-Newfie		on Compan	y		1
Route 3 Box 3630				Route 3	Box 3630				ł
Myton, UT 84052				Myton,	UT 84052				
Phone: 1-(435) 646-3721				Phone: 1-(435)	646-3721				1
C	A No.			Unit:					7
WELL(S)									1
NAME	SEC	TWN	RNG	API NO	1	LEASE	WELL	WELL	1
EEDED AT A AL O LO		0000	4000	400450	NO	TYPE	TYPE	STATUS	
FEDERAL 3-31-8-18	31			4304734496		Federal	OW	P	K
FEDERAL 4-31-8-18	31	-		4304734497		Federal	OW	DRL	K
FEDERAL 5-31-8-18	31			4304734498	<del></del>	Federal	OW	P	K
FEDERAL 6-31-8-18	31			4304734499	<del>}</del>	Federal	ow	P	K
FEDERAL 7-31-8-18	31			4304734500	4	Federal	ow	P	K
FEDERAL 11-31-8-18	31			4304734501	13924	Federal	ow	P	K
FEDERAL 12-31-8-18	31			4304734502	13958	Federal	OW	P	K
FEDERAL 13-31-8-18	31	080S	180E	4304734503	14324	Federal	ow	P	K
FEDERAL 8-31-8-18	31	080S	180E	4304734504	13961	Federal	ow	P	K
FEDERAL 10-31-8-18	31	080S	180E	4304734930	13986	Federal	ow	P	K
FEDERAL 9-31-8-18	31	080S	180E	4304734931	13963	Federal	ow	P	K
FEDERAL 2-1-9-17	01	090S	170E	4304734938		Federal	ow	APD	K
FEDERAL 3-1-9-17	01	090S	170E	4304734939		Federal	ow	APD	K
FEDERAL 8-1-9-17	01	090S	170E	4304734940		Federal	ow	APD	K
FEDERAL 5-6-9-18	06	090S	180E	4304734932		Federal	ow	APD	K
FEDERAL 6-6-9-18	06	090S	180E	4304734933	14152	Federal	ow	P	K
FEDERAL 7-6-9-18	06	090S	180E	4304734934	14126	Federal	ow	P	K
FEDERAL 8-6-9-18	06	090S	180E	4304734935		Federal	ow	APD	K
FEDERAL 13-6-9-18	06	090S	180E	4304734936	14049	Federal	ow	P	K
FEDERAL 14-6-9-18	06	090S	180E	4304734937	14064	Federal	ow	P	K

#### **OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on:
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on:
 9/15/2004

3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 2/23/2005

4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143

5. If NO, the operator was contacted contacted on:

. (R649-9-2)Waste Management Plan has been received on: . Inspections of LA PA state/fee well sites complete on:	IN PLACE waived		
·			
Federal and Indian Lease Wells: The BLM and or the or operator change for all wells listed on Federal or Indian lease.	he BIA has appro-	ved the merger, BLM	name change, BIA
Federal and Indian Units:  The BLM or BIA has approved the successor of unit operators.	or for wells listed on:	n/a	_
Federal and Indian Communization Agreement The BLM or BIA has approved the operator for all wells list	ted within a CA on:	na/_	
O. Underground Injection Control ("UIC") The Inject, for the enhanced/secondary recovery unit/project for the enhanced of the inject.			ansfer of Authority to 2/23/2005
ATA ENTRY: Changes entered in the Oil and Gas Database on:	2/28/2005		
Changes have been entered on the Monthly Operator Change	ge Spread Sheet on:	2/28/20	05_
Bond information entered in RBDMS on:	2/28/2005		
Fee/State wells attached to bond in RBDMS on:	2/28/2005		
Injection Projects to new operator in RBDMS on:	2/28/2005		
Receipt of Acceptance of Drilling Procedures for APD/New	on:	waived	
EDERAL WELL(S) BOND VERIFICATION: Federal well(s) covered by Bond Number:	UT 0056		
NDIAN WELL(S) BOND VERIFICATION:  Indian well(s) covered by Bond Number:	61BSBDH2912		
TEE & STATE WELL(S) BOND VERIFICATION.  (R649-3-1) The NEW operator of any fee well(s) listed cover.	N: ered by Bond Number	61BSBDI	H2919
. The FORMER operator has requested a release of liability from The Division sent response by letter on:	om their bond on: n/a	n/a*	
LEASE INTEREST OWNER NOTIFICATION:  (R649-2-10) The FORMER operator of the fee wells has bee of their responsibility to notify all interest owners of this char	en contacted and informage on:	med by a letter fro	m the Division
COMMENTS: *Bond rider changed operator name from Inland Production Con	nnany to Newfield Pr	oduction Company	- received 2/23/05
Bond fider changed operator hathe from thiand reduction con	ipany to Homitota II		



## United States Department of the Interior

#### **BUREAU OF LAND MANAGEMENT Utah State Office** P.O. Box 45155 Salt Lake City, UT 84145-0155



IN REPLY REFER TO 3180 UT-922

June 30, 2005

**Newfield Production Company** Attn: Kelly L. Donohoue 1401 Seventeenth Street, Suite 1000 Denver, Colorado 80202

#### Gentlemen:

The Sundance (Green River) Unit Agreement, Uintah County, Utah, was approved June 30, 2005. This agreement has been designated No. UTU82472X, and is effective July 1, 2005. The unit area embraces 11,143.86 acres, more or less.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Sundance (Green River) Unit will be covered by your nationwide (Utah) oil and gas bond No. 0056.

The following leases embrace lands included within the unit area:

UTU0075174	UTU39713	UTU65970*	UTU79013*
UTU16539*	UTU39714	UTU74404	UTU79014*
UTU16540	UTU44429	UTU74835	UTU80915
UTU17424*	UTU64806*	UTU74872*	UTU82205
UTU18043	UTU65969	UTU75234	

\* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

All lands and interests by State of Utah, Cause No. 228-08 are fully committed.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

> RECEIVED JUL 0 / 2005

We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement. We request that you furnish the State of Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

/s/ Terry Catlin

Terry Catlin Acting Chief, Branch of Fluid Minerals

#### **Enclosure**

bcc: Mary Higgins w/enclosure

MMS - Data Management Division (Attn: James Sykes)

Trust Lands Administration
Division of Oil, Gas and Mining
Field Manager - Vernal w/enclosure

File - Sundance (Green River) Unit w/enclosure

Agr. Sec. Chron Fluid Chron Central Files

UT922:TAThompson:tt:06/30/2005

## "C" Change from one existing entity to another existing entity

API	Well	Sec	Twsp	Rng	Entity	Entity Eff Date
4304735697	FEDERAL 15-13-9-17	13	090S	170E	14828 to 14844	9/20/2005
4304735698	FEDERAL 13-13-9-17	13	090S	170E	14813 to 14844	9/20/2005
4304735699	FEDERAL 11-13-9-17	13	090S	170E	14837 to 14844	9/20/2005
4304735702	FEDERAL 5-13-9-17	13	090S	170E	14836 to 14844	9/20/2005
4304736012	FEDERAL 14-13-9-17	13	090S	170E	14790 to 14844	9/20/2005
4304732438	FEDERAL 44-14Y	14	090S	170E	11506 to 14844	9/20/2005
4304735708	FEDERAL 9-14-9-17	14	090S	170E	14808 to 14844	9/20/2005
4304735709	FEDERAL 11-14-9-17	14	090S	170E	14734 to 14844	9/20/2005
4304735710	FEDERAL 15-14-9-17	14	090S	170E	14735 to 14844	9/20/2005
4304736068	FEDERAL 14-14-9-17	14	090S	170E	14770 to 14844	9/20/2005
4304736069	FEDERAL 10-14-9-17	14	090S	170E	14787 to 14844	9/20/2005
4304736071	FEDERAL 6-14-9-17	14	090S	170E	14809 to 14844	9/20/2005
4304731181	FEDERAL 14-4-9-18	04	090S	180E	14601 to 14844	9/20/2005
4304732653	FEDERAL 13-4-9-18	04	090S	180E	14602 to 14844	9/20/2005
4304732654	FEDERAL 11-4-9-18	04	090S	180E	14603 to 14844	9/20/2005
4304735473	FEDERAL 1-4-9-18	04	090S	180E	14533 to 14844	9/20/2005
4304735474	FEDERAL 7-4-9-18	04	090S	180E	14499 to 14844	9/20/2005
4304735475	FEDERAL 9-4-9-18	04	090S	180E	14530 to 14844	9/20/2005
4304735589	FEDERAL 2-4-9-18	04	090S	180E	14485 to 14844	9/20/2005
4304735590	FEDERAL 3-4-9-18	04	090S	180E	14697 to 14844	9/20/2005
4304735591	FEDERAL 5-4-9-18	04	090S	180E	14680 to 14844	9/20/2005
4304735592	FEDERAL 6-4-9-18	04	090S	180E	14696 to 14844	9/20/2005
4304735593	FEDERAL 8-4-9-18	04	090S	180E	14528 to 14844	9/20/2005
4304735594	FEDERAL 10-4-9-18	04	090S	180E	14535 to 14844	9/20/2005
4304735595	FEDERAL 12-4-9-18	04	090S	180E	14670 to 14844	9/20/2005
4304732503	21BALCRON FED 31-5Y	05	090S	180E	11680 to 14844	9/20/2005
4304735290	FEDERAL 5-5-9-18	05	090S	180E	14669 to 14844	9/20/2005
4304735292	FEDERAL 9-5-9-18	05	090S	180E	14554 to 14844	9/20/2005
4304735293	FEDERAL 11-5-9-18	05	0908	180E	14769 to 14844	9/20/2005
4304735294	FEDERAL 13-5-9-18	05	090S	180E	14658 to 14844	9/20/2005
4304735505	FEDERAL 14-5-9-18	05	0908	180E	14687 to 14844	9/20/2005
4304735506	FEDERAL 12-5-9-18	05	090S	180E	14651 to 14844	9/20/2005
4304735891	FEDERAL 10-5-9-18	05	090S	180E	14698 to 14844	9/20/2005
4304734933	FEDERAL 6-6-9-18	06	090S	180E	14152 to 14844	9/20/2005
4304734934	FEDERAL 7-6-9-18	06	090S	180E	14126 to 14844	9/20/2005
4304734936	FEDERAL 13-6-9-18	06	090S	180E	14049 to 14844	9/20/2005

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 8 1595 WYNKOOP STREET DENVER, CO 80202-1129** http://www.epa.gov/region8

AUG 3 1 2010

Ref: 8P-W-GW

## **CERTIFIED MAIL** RETURN RECEIPT REQUESTED

Eric Sundberg **Newfield Production Company** 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

> Accorded by the Mich Division of Oil, Gos and Mining FOR RECORD ONLY

Re: FINAL Permit

**EPA UIC Permit UT22172-08763** 

Well: Federal #6-6-9-18 SENW Sec. 6-T9S-R18E

Uintah County, UT API No.: 43-047-34933

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal #6-6-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

AUG 0 6 2010 The Public Comment period for this Permit ended on No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

SEP 0 9 2010
Printed on Recycled 79 Printed on Recycled 79 Printed On Recycled 79 Printed 79 Printed On Recycled 79 Printed RECEIVED

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Tom Aalto of my staff at (303) 312-6949, or toll-free at (800) 227-8917, ext. 312-6949.

Sincerely,

Stephen S. Tuber

**Assistant Regional Administrator** 

Office of Partnerships and Regulatory Assistance

enclosure:

Final UIC Permit

Statement of Basis

cc:

cc Letter Only

Uintah & Ouray Business Committee:

Curtis Cesspooch, Chairman

Frances Poowegup, Vice-chairwoman

Phillip Chimburas, Councilman

Stewart Pike, Councilman Irene Cuch, Councilwoman Richard Jenks, Jr., Councilman

Daniel Picard

BIA - Uintah & Ouray Indian Agency

cc All Enclosures:

Mike Natchees Environmental Coordinator Ute Indian Tribe

Manual Myore Director of Energy & Minerals Dept. Ute Indian Tribe



Brad Hill Acting Associate Director Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office BLM - Vernal Office

## **\$EPA**

# UNDERGROUND INJECTION CONTROL PROGRAM PERMIT

PREPARED: April 2010

Permit No. UT22172-08763

Class II Enhanced Oil Recovery Injection Well

Federal #6-6-9-18 Uintah County, UT

Issued To

**Newfield Production Co.** 

1001 Seventeenth Street, Suite 2000 Denver, CO 80202

## **TABLE OF CONTENTS**

PART I. AUT	HORIZATION TO CONSTRUCT AND OPERATE	2
PART II. SPE	CIFIC PERMIT CONDITIONS	3
Section A	. WELL CONSTRUCTION REQUIREMENTS	3
1. Ca	asing and Cement	3
2. Inj	jection Tubing and Packer	3
3. Sa	ampling and Monitoring Devices	3
	ell Logging and Testing	4
	ostponement of Construction or Conversion	4
6. W	orkovers and Alterations	4
Section B	. MECHANICAL INTEGRITY	4
1. De	emonstration of Mechanical Integrity (MI)	5
	echanical Integrity Test Methods and Criteria	5
	otification Prior to Testing	5
4. Lo	oss of Mechanical Integrity	5
Section C	. WELL OPERATION	6
1. Re	equirements Prior to Commencing Injection	6
•	ection Interval	6
	ection Pressure Limitation	6
-	ection Volume Limitation	7
-	ection Fluid Limitation	7
6. Tu	ubing-Casing Annulus (TCA)	7
Section D	. MONITORING, RECORDKEEPING, AND REPORTING OF	7
1. Mo	onitoring Parameters, Frequency, Records and Reports	7
2. Mo	onitoring Methods	7
3. Re	ecords Retention	8
4. An	nnual Reports	8
Section E.	. PLUGGING AND ABANDONMENT	8
1. <b>N</b> o	otification of Well Abandonment, Conversion or Closure	9
2. W	ell Plugging Requirements	9
	pproved Plugging and Abandonment Plan	9
4. Fo	orty Five (45) Day Notice of Plugging and Abandonment	9
5. Plu	ugging and Abandonment Report	9
6. Ina	active Wells	9

PART III. CONDITIONS APPLICABLE TO ALL PERMITS	11
Section A. EFFECT OF PERMIT	11
Section B. CHANGES TO PERMIT CONDITIONS  1. Modification, Reissuance, or Termination 2. Conversions 3. Transfer of Permit 4. Permittee Change of Address 5. Construction Changes, Workovers, Logging and Testing Data	11 11 11 11 12 12
Section C. SEVERABILITY	12
Section D. CONFIDENTIALITY	12
Section E. GENERAL PERMIT REQUIREMENTS	12
<ol> <li>Duty to Comply</li> <li>Duty to Reapply</li> <li>Need to Halt or Reduce Activity Not a Defense</li> <li>Duty to Mitigate</li> <li>Proper Operation and Maintenance</li> <li>Permit Actions</li> <li>Property Rights</li> <li>Duty to Provide Information</li> <li>Inspection and Entry</li> <li>Signatory Requirements</li> <li>Reporting requirements</li> <li>Reporting requirements</li> <li>Method of Providing Financial Responsibility</li> <li>Insolvency</li> </ol>	12 13 13 13 13 13 14 14 15 15
APPENDIX A - WELL CONSTRUCTION REQUIREMENTS	A-1
APPENDIX B - LOGGING AND TESTING REQUIREMENTS	B-1
APPENDIX C - OPERATING REQUIREMENTS	C-1
APPENDIX D - MONITORING AND REPORTING REQUIREMENTS	D-1
APPENDIX E - PLUGGING AND ABANDONMENT REQUIREMENTS	E-1
APPENDIX F - CORRECTIVE ACTION REQUIREMENTS	F-1

## Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,
Newfield Production Co. 1001 Seventeenth Street, Suite 2000 Denver, CO 80202
is authorized to construct and to operate the following Class II injection well or wells:
Federal #6-6-9-18 1935 FNL & 1846 FWL, SENW S6, T9S, R18E Uintah County, UT
EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.
Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).
This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR §144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.
Issue Date:AUG 3 1 2010
Stephen S. Tuber Assistant Regional Administrator* Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

#### PART II. SPECIFIC PERMIT CONDITIONS

#### Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### 1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### 2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### 3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shutoff the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### 4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### 5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

#### 6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

#### Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

#### 1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

#### 2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

#### 3. Notification Prior to Testing.

The Permittee shall notify the Director at least seven calendar days prior to any mechanical integrity test unless the mechanical integrity test is conducted after a well construction, well conversion, or a well rework, in which case any prior notice is sufficient. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

#### 4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

#### Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

#### 1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

#### 2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

#### 3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

#### 4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

#### 5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

#### 6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

#### Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

#### 1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and:
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

#### 2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

#### 3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

#### 4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

#### Section E. PLUGGING AND ABANDONMENT

#### 1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

#### 2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

#### 3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

#### 4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

#### 5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

#### 6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

## PART III. CONDITIONS APPLICABLE TO ALL PERMITS

#### Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

#### Section B. CHANGES TO PERMIT CONDITIONS

#### 1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### 2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### 3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

#### 4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

#### 5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

#### Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

#### Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

#### Section E. GENERAL PERMIT REQUIREMENTS

#### 1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

#### 2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

#### 3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

#### 4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

#### 5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

#### 6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

#### 7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

#### 8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

#### 9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit:
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

#### 10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

#### 11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:

14

- (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
- (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

#### Section F. FINANCIAL RESPONSIBILITY

#### 1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

#### 2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

#### **APPENDIX A**

## **WELL CONSTRUCTION REQUIREMENTS**

Well Construction Details (all depths given from KB):

Surface Casing: 8-5/8" casing is set at 324 ft. in a 12-1/4" hole, using 150 sacks of Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 5,950 ft. in a 7-7/8" hole secured with 300 sacks of Prem Lite II cement and 400 sacks of Poz mix cement. Total driller depth is 5,950 ft. Plugged back total depth is 5,925 ft. Cement Bond Log (CBL) shows top of cement (TOC) is at 160 ft. However, information provided by the Permittee including the wellbore diagram shows TOC at 275 ft. Based on current information, EPA has determined that TOC is at 275 ft.

Perforations: Top perforation: 4,279 ft. Bottom perforation: 5,754 ft.

Additional perforations may be added in the designated injection zone (4,038 ft. - 6,044 ft.) provided that the Permittee first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer shall be set no higher than 100 ft. above the top injection zone perforation.

Additional information concerning the well may be found on the state website: http://oilgas.ogm.utah.gov/

See annotated well construction diagram on page A-2 for additional details.

Tom Aulto EPA EG 5/11/10

Federal #6-6-9-18 Snud Date: 4/25/04 Put on Production: 5/25/04 Initial Production; 151 BOPD, GL; 5035' KB; 5047' 106 MCFD, 41 BWPD Proposed Injection 5047'-4800' = 247' (est. base et Wellbore Diagram USDW)\* SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 5/14/04 5670'-5754' Frac CP3 and 4 sands as follows: 89,424# 20/40 sand in 671 bbls lightning Frac 17 fluid, Treated @ avg press of 1085 psi w/avg rate of 24.8 BPM. ISIP 1400 psi. Calc GRADE: J-55 WEIGHT: 24# (CBL TOC: 160') flush: 5668 gal. Actual flush: 5712 gal. LENGTH; 7 jts. (313.89') Basest USDWat 5/18/04 5575'-5626' 247' (est.) Prac CP 2 and 1 sands as follows: DEPTH LANDED: 323,89' KB Cement Top @ 275' 74,643# 20/40 sand in 591 bbls lightning HOLE SIZE: 12 1/4" Frac 17 fluid. Treated @ avg press of 1367 psi (Use) w/avg rate of 24.8 BPM. ISIP 1530 psi. Calc CEMENT DATA: 150sxs Class "G" mixed cmt, est 6 bbls cmt to surf. flush: 5573 gal. Actual flush: 5569 gal. 5/18/04 5298'-5309' Frac LODC sands as follows: 224' \_ 34,377# 20/40 sand in 366 bbls lightning Frac 17 fluid. Treated @ avg press of 1076 psi Uinta Fm w/avg rate of 24.8 BPM. ISIP 1400 psi. Calc .1399' Green River MKr flush: 5296 gal. Actual flush: 5334 gal. Green R 15/18/04 5134'-5220' Frac A3 AND 1 sands as follows: PRODUCTION CASING 129,743# 20/40 sand in 886 bbls lightning 2914 Trona Frac 17 fluid. Treated @ avg press of 1642 psi CSG SIZE: 5-1/2" w/avg rate of 24.8 BPM. ISIP 1740 psi. Calc GRADE: J-55 1953 Malogan, Bench flush: 5132 gal. Actual flush: 5166 gal. 3565', T.p. F. ACZ who APTS'-5047' -3750 Garden Gulch MKr -3750 Garden Gulch I WEIGHT: 15.5# Bottom of the 2972's Halvogany Bench Frac B3 AND I sands as follows: 129,767# 20/40 sand in 885 bbls lightning LENGTH: 135 jts. (5951.77') Frac 17 fluid. Treated @ avg press of 1261 psi Bottom of ACZ 3750' DEPTH LANDED: 5949,77' KB w/avg rate of 24.8 BPM, ISIP 1680 psi. Calc flush: 4973 gal. Actual flush: 4972 gal. - 4038' Garden Gulch 2 HOLE SIZE: 7-7/8" Packer @ 4229' 5/19/04 48361-48481 Frac C sands as follows: CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix. 49,717# 20/40 sand in 417 bbls lightning Frac CEMENT TOP AT: 275" 17 fluid. Treated @ avg press of 1642 psi w/avg rate of 24.7 BPM. ISIP 1890 psi. Calc Top of IZ 4279'-4289' - Point 3 Marker 4294' Shale "A": 3856 - 3926" 4038'- Base of Shale "B", flush; 4834 gal. Actual flush; 4830 gal. 4382'-4392' Shale "B": 3960-4038' Frac PB8 sands as follows: - X MK - 5/19/04 , 4382'-4392' 24,846# 20/40 sand in 268 bbls lightning Frac alternative confining zone YMKr 45571 17 fluid. Treated @ avg press of 2877 psi w/avg rate of 24.6 BPM, ISIP 2560 psi, Calc TUBING SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# 4684' Douglas Creek flush: 4380 gal. Actual flush: 4368 gal. No 80% coment NO. OF JOINTS: 180 its (5642.32') 5/19/04 4279'-4289' Frac GB6 sands as follows: above this 46,393# 20/40 sand in 395 bbls lightning Frac TUBING ANCHOR: 5654,32' KB 4836'-4848' 17 fluid. Treated @ avg press of 2013 psi w/avg rate of 24.8 BPM. ISIP 1975 psi. Calc -4906 NO. OF JOINTS: 3 jts (93.50') 4975'-4983' Bi Carbonate flush: 4277 gal. Actual flush: 4158 gal. SEATING NIPPLE: 2-7/8" (1.10') 5012'-5018' SN LANDED AT: 5750.62' KB 5030'-5047' 5052' @ Like Tong 5134'-5151' A&Cr NO. OF JOINTS: 2 jts (63.10') PERFORATION RECORD TOTAL STRING LENGTH: EOT @ 5815.27 w/ 12' KB' Maker 5/14/04 5740"-5754" 4 JSPF 56 holes \$155'-5161 5/14/04 5713'-5720' 4 JSPF 28 holes \* Note: Base of USDIV estimated to be 5/14/04 5684'-5691' 4 ISPF 28 holes at an elevation of 4800' (3/5 of 5205'-5220' 5/14/04 5670'-5678' 4 JSPF 5/18/04 5618'-5626' 4 JSPF 32 holes the way between the 4500' and 5/18/04 5575'-5592' 5298'-5309' -5501' castle Peak 5000' USDW elevation conteurs shown 5/18/04 5298'-5309' 4 JSPF 44 holes 5/18/04 5205'-5220' 4 JSPF 60 holes 5575'-5592' on map in Utal DNR Technical 5/18/04 5155'-5161' 4 JSPF 24 holes Publication #92). The KB depth. 5/18/04 5134'-5151' 4 JSPF 68 holes 5618'-5626 5/18/04 5030'-5047' 4 JSPF 68 holes 5670'-5678' to the bare of the USBW 5/18/04 5012'-5018' 4 JSPF 24 holes 5/18/04 4975'-4983' is estimated to be at 247 (KB) 5684'-5691' 5/19/04 4836'-4848' 48 holes 4382'-4392' 4 JSPF 4279'-4289' 4 ISPF 40 holes 5/19/04 5713'-5720' 5740'-5754' - 5919 Baral Carbonate (ett. Hickness ACZ = Advantager fratise Contining Zone (a.K.a., Areal Confiring Zone) Top of Fill & PBTD @ 5925' from other wells in general area is 1251) NEWFIELD

SHOE & TD @ 5950'

Wasatch Fm NDE

Cost top is at 60441)

K1. 2/9/2016

Federal #6-6-9-18

1935' FNL & 1846' FWL

SE/NW Section 6-T9S-R18E Uintah County, Utah

API #43-047-34933; Lease #U-65970

#### APPENDIX B

#### LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

Once any required records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS or RATS) is required. A successful RTS will be considered valid at injection pressures up to the Maximum Allowable Injection Pressure (MAIP) until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA,
- b) If the MAIP of the injection well is exceeded for any reason (It is a violation to exceed the MAIP without prior EPA approval),
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive,
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, that may affect the cement integrity of the well,
- e) If the Director requests that a RTS be run for any reason.

WELL NAME: Federal #6-6-9-18	
TYPE OF LOG	DATE DUE
RATS	During the 180-day period of Limited Authorization to Inject and thereafter as required above.

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

The required tests are shown below.

W	ELL NAME: Federal #6-6-9-18	1
	TYPE OF TEST	DATE DUE
!	Standard Annulus Pressure	Prior to receiving authorization to inject and at least once every five (5) years after the last successful demonstration of Part I Mechanical Integrity.
	Pore Pressure	Prior to receiving authorization to inject

Permit UT22172-08763 B-2

#### **APPENDIX C**

#### **OPERATING REQUIREMENTS**

#### **MAXIMUM ALLOWABLE INJECTION PRESSURE:**

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

Committee of the Commit	With the Control of t	1
	MAXIMUM ALLOWED INJECTION PRESSURE (psi)	
WELL NAME	ZONE 1 (Upper)	
Federal #6-6-9-18	1,010	ŧ
International and the comment of the		

#### **INJECTION INTERVAL(S):**

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Federal #6-6-9-18		
Name of the state	APPROVED INJECTION INTERVAL (KB, ft)	FRACTURE GRADIENT
FORMATION NAME	TOP BOTTOM	(psi/ft)
Green River	4,038.00 - 6,044.00	0.680

#### **ANNULUS PRESSURE:**

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

#### **MAXIMUM INJECTION VOLUME:**

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

#### APPENDIX D

## **MONITORING AND REPORTING PARAMETERS**

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS		
OBSERVE AND RECORD	Injection pressure (psig)	
	Annulus pressure(s) (psig)	
	Injection rate (bbl/day)	
	Fluid volume injected since the well began injecting (bbls)	

	ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)	
	Injected fluid specific gravity	
	Injected fluid specific conductivity	
	Injected fluid pH	

	ANNUALLY
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

#### **APPENDIX E**

## PLUGGING AND ABANDONMENT REQUIREMENTS

At a minimum, the following plugs are required using Class "G" Cement or other acceptable cement types approved by the Director:

Plug No. 1: Set a cast iron bridge plug (CIBP) 50 ft. above the top injection zone perforations (at the time of permit issuance, the top perforation is/was at 4,279 ft.). Set 100 ft. cement plug on top of the CIBP.

Plug No. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona-Bird's Nest interval and the Mahogany Bench oil shale in a 158-foot cement plug from 2,864 ft. to 3,022 ft. unless pre-existing backside cement precludes cement-squeezing this interval. Set a 158-foot cement plug inside the 5-1/2" casing from 2,864 ft. to 3,022 ft.

Plug No. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,519 ft., in a 120-foot cement plug from 1339 ft. to 1,459 ft., unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2" casing from 1,339 ft. to 1,459 ft.

Plug No. 4: Set a cement plug within the 5-1/2" casing from a depth of 374 ft. to the surface.

See annotated Plugging and Abandonment Plan diagram on page E-2 for additional details.

Spud Date: 4/25/04

Put on Production: 5/25/04

GL: 5035' KB: 5047'

## Federal #6-6-9-18

Tom Aulto, EPA

Initial Production: 151 BOPD, 106 MCFD, 41 BWPD

Proposed P&A Wellbore Diagram

SURFACE CASING CSG SIZE: 8-5/8" GRADE: J-55 Pump 43 sx Class "G" cement down 5 1/2" casing to 374" WEIGHT: 24# Casing shoe @ 324' LENGTH: 7 jts. (313.89') Base of USOW (est.). DEPTH LANDED: 323.89" KB Cement Top @ 275\* HOLE SIZE: 12 1/4" CEMENT DATA: 150sxs Class "G" mixed cmt, cst 6 bbls cmt to surf. 324 21339 PRODUCTION CASING 120' balance plug using 14 sx Class "G" cement 60' CSG SIZE: 5-1/2" Green River Formation above Uinta/Green River and extending 60' below (1339-1459') GRADE: J-SS WEIGHT: 15.5# 1459 LENGTH: 135 jts. (5951.77') 2864' DEPTH LANDED: 5949.77' KB 158' balance plug using 18 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (2864-3022') CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix. Trona Top: 2914' 3022' Mahogany Bench Bottom: 2.972 100' (12 sx) Class G Cement plug on top of CIBP CIBP @ 4229' or 50' above top injection 4279' 24289' Zone perforation 4279'-4289' 4382'-4392 4836'-4848' 4975'-4983' 5012'-5018' 5030'-5047' 5155'-5161' 5134"-5151" 2 5205,-2550, 5298'-5309' 5575'-5592' 5618'-5626' 5670'-5678' 5684'-5691' 5713'-5720' - 5740'-5754' Top of Fill & PBTD @ 5925' NEWFIELD SHOE & TD @ 5950'

Federal #6-6-9-18 1935' FNL & 1846' FWL SE/NW Section 6-T9S-R18E Uintah County, Utah API #43-047-34933; Lease #U-65970

K1. 2/9/2010

## **APPENDIX F**

## **CORRECTIVE ACTION REQUIREMENTS**

No corrective action is deemed necessary for this project.

## STATEMENT OF BASIS

# NEWFIELD PRODUCTION CO. FEDERAL #6-6-9-18 UINTAH COUNTY, UT

## **EPA PERMIT NO. UT22172-08763**

**CONTACT:** Tom Aalto

U. S. Environmental Protection Agency Ground Water Program, 8P-W-GW

1595 Wynkoop Street

Denver, Colorado 80202-1129

Telephone: 1-800-227-8917 ext. 312-6949

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

## PART I. General Information and Description of Facility

Newfield Production Co.

1001 Seventeenth Street, Suite 2000
Denver, CO 80202

on

April 8, 2010

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection wells:

Federal #6-6-9-18 1935 FNL & 1846 FWL, SENW S6, T9S, R18E Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal 6-6-9-18 well is currently a Green River Formation production well. It is the intent of the applicant to convert the well from production to injection of brine for Class II enhanced recovery.

# TABLE 1.1 WELL STATUS / DATE OF OPERATION

**NEW WELLS** 

**Well Name** 

**Well Status** 

**Date of Operation** 

Federal #6-6-9-18

New

N/A

# PART II. Permit Considerations (40 CFR 146.24)

Information related to the Federal 6-6-9-18 well concerning area hydrogeology, the designated injection zone, the designated confining zone, and Underground Sources of Drinking Water (USDWs) is provided below.

Unless otherwise indicated, all depths reference the Kelly Bushing (KB) datum.

## **Hydrogeologic Setting**

The proposed enhanced oil recovery injection well is located in the Sundance Unit, which is part of the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-westtrending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonicinduced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref. "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne

River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of groundwater withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/L and higher total dissolved solids.

Information concerning the location and depth of selected aquifers in the area including Underground Sources of Drinking Water (USDWs), can be found in "Base of Moderately Saline Ground Water In The Uinta Basin, Utah", Technical Publication No. 92, State of Utah, Department of Natural Resources, U.S. Geological Survey Open-File Report 87-394, 1987.

### Geologic Setting (TABLE 2.1)

# TABLE 2.1 GEOLOGIC SETTING Federal #6-6-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta and Green River	12	6,044	See See See See See See See See See See	Shales, sands, and carbonates
Uinta: USDW	12	247	< 10,000	Sand and shale
Uinta	12	1,399		Interbedded lacustrine sand, shale, and carbonate with fluvial sand and shale
Green River	1,399	2,914	10 To Charles and Annual Company of the Company of	Interbedded lacustrine sand, shale, and carbonate with fluvial sand and shale
Green River: Trona	2,914	2,953	The state of the s	Evaporite
Green River: Mahogany Bench	2,953	2,972	2004 - 4 Voge - 2 Amazis 2000 - 1 - 1000000000000000000000000000	Oil Shale
Green River: Shale	2,972	3,750		Shale
Green River: Garden Gulch	3,750	4,684	44,567	Interbedded lacustrine sand, shale, and carbonate with fluvial sand and shale
Green River: Douglas Creek	4,684	5,919	44,567	Interbedded lacustrine sand, shale, and carbonate with fluvial sand and shale
Wasatch (estimated)	6,044	7,000		mudstone, siltstone, lenticular sandstone, shale and conglomerate, identified by reddish color

## Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The proposed injection zone includes approximately 2006 ft. of interbedded porous clacareous sandstones, as well as shales and carbonates.

# TABLE 2.2 INJECTION ZONES

Federal #6-6-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	4,038	6,044	44,567	0.680		N/A

<sup>\*</sup> C - Currently Exempted

- **E Previously Exempted**
- P Proposed Exemption
- N/A Not Applicable

## Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The selected confining zone is designated as Shale "B" and includes 78 ft. of shale immediately above the Garden Gulch 2 Member of the Green River Formation.

# TABLE 2.3 CONFINING ZONES

Federal #6-6-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River: Shale	Shale (Designated as Shale "B")	3,960	4,038

## Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The injection zone does not include any known USDW(s) in this area. [Note: Ocassional "freshening" of the saline ground water in the Monument Butte Field has been ascribed to injection

of relatively fresh water for enhanced oil recovery.] While other USDW(S) could potentially exist in the area, Table 2.4 shows the lowermost known USDW(s) penetrated by the Federal 6-6-9-18 well.

The State of Utah Division of Water Rights identifies no public water supply wells within the one-quarter mile Area of Review (AOR).

Technical Publication No. 92 was used to estimate the base of the USDW(s) in the immediate area.

# TABLE 2.4 UNDERGROUND SOURCES OF DRINKING WATER (USDW)

Federal #6-6-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS	(mg/l)
Uinta: USDW	Sand and shale	12	247	<	10,000
Uinta	Interbedded lacustrine sand, shale, and carbonate with fluvial sand and shale	12	1,399		

## PART III. Well Construction (40 CFR 146.22)

Well construction requirements are provided in Appendix A.

# TABLE 3.1 WELL CONSTRUCTION REQUIREMENTS

Federal #6-6-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Surface	12.25	8.63	0 - 324	0 - 324
Longstring	7.88	5.50	0 - 5,950	275 - 5,950

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

During well conversion, the Permittee plans to move the packer to a depth of 4,279 ft. (at the time of the permit application, the packer was at a depth of 5,654 ft.).

#### Casing and Cementing (TABLE 3.1)

The construction plan for the well or wells proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for the well or wells are shown in TABLE 3.1.

#### **Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

## **Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing-casing annulus shall be kept closed in order to allow for required monitoring as specified in Appendix D.

## **Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1  AOR AND CORRECTIVE ACTION					
Well Name	Туре	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal #4-6-9-18	Producer	No	6,267	114	No
Federal #7-6-9-18	Injector	No	6,013	112	No
Sundance Federal #3-6-9-18	Producer	No	6,225	2,370	No
Sundance Federal #5-6-9-18	Injector	No	6,055	139	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

#### **Area Of Review**

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be

affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

#### **Corrective Action Plan**

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

## PART V. Well Operation Requirements (40 CFR 146.23)

INJE	TABLE 5.1	RES	·
	Federal #6-6-9-18		
Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	4,279	0.680	1,010

#### Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of drinking-quality water from the Johnson Water District supply line and/or water from the Green River supply line as well as Green River Formation produced water from nearby wells commingled at the Newfield Injection Facility.

#### **Injection Pressure Limitation**

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The MAIP is also referred to as the injection zone Formation Fracture Pressure (FP) in the equation below. [See Permit Section C.3., "Injection Pressure Limitation", for Permit requirements pertaining to injection pressures and fractures.]

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

The specific gravity of the injectate is reported to be 1.023.

### Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There are no injection volume limitations.

## Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

- 1. there is no significant leak in the casing, tubing, or packer (Part I); and
- 2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

The Mechanical Integrity (MI) testing requirements for the Federal 6-6-9-18 well are discussed in the Permit and in Attachment B. The radioactive tracer survey (which is abbreviated as "RATS" or "RTS") will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the confining zone, by demonstrating the presence or absence of adequate cement to prevent fluid movement behind the casing above the uppermost perforation. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the permit, an extension of the period of Limited Authorization to Inject may be requested. A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a temperature log, oxygen activation log, or noise log at a frequency no less than once every five years.

Statement of Basis

# PART VI. Monitoring, Recordkeeping and Reporting Requirements

## **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

# PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

#### **Plugging and Abandonment Plan**

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

As discussed in the EPA Region 8 guidance, wells should be plugged and abandoned in a manner to prevent migration of fluids in the wellbore into or between USDWs. The four (4) cement plugs required for this well are as follows:

Plug No. 1 is required to prevent migration of fluids out of the injection zone. There are no known USDWs below Plug No. 1.

Plug No. 2 is required because the interval of the Green River Formation, containing the Bird's Nest and Trona Members, is reported to contain USDWs in places in the Uinta Basin, and the Mahogany Bench Member is an oil shale resource that is also being protected under U.S. Bureau of Land Management (BLM) requirements.

Plug No. 3 is required across the Uinta Formation/Green River Formation contact to prevent flow between USDWs.

Plug No. 4 is required to prevent fluids from migrating from the surface or from below into shallow USDWs.

## PART VIII. Financial Responsibility (40 CFR 144.52)

## **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

The financial statement submitted by the Permittee has been reviewed and approved by EPA.	
Financial Statement, received May 16, 2008	
Evidence of continuing financial responsibility is required to be submitted to the Director annually.	*****

Sundry Number: 44225 API Well Number: 43047349330000

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-65970	
SUNDF	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	oposals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: FEDERAL 6-6-9-18	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY		9. API NUMBER: 43047349330000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1935 FNL 1846 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 06 Township: 09.0S Range: 18.0E Meridi	an: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
	✓ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
10/21/2013	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
Date of Spud.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The subject well has been converted from a producing oil well to an injection well on 10/18/2013. Initial MIT on the above listed well. On 10/21/2013 the casing was pressured up to 1940 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not an EPA representative available to witness the test. EPA#  UT22197-10155				
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBE 435 646-4874	R TITLE Water Services Technician		
SIGNATURE N/A		<b>DATE</b> 10/28/2013		

Sundry Number: 44225 API Well Number: 43047349330000

# Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:		Date: / 0 / 2 / /	/3
Test conducted by:	OHNNY SZIM-	Planet	
Others present:B_	ART STUBBS		
			-/0 55
		Type: ER SWD Status	s: AC 1A UC
	:b_T9 N (S) R18	(E) W County: VINTANA	State: 1734
Last MIT: /	/ Prouve 970	able Pressure:	PSIG
Initial test for permit?  Test after well rework?  Well injecting during test?	Yes   X     Yes   X     X     Yes     X   X     X     X     X     X     X     X     X     X     X     X   X     X     X     X     X     X     X     X     X     X     X   X     X     X     X     X     X     X     X     X     X     X   X     X     X     X     X     X     X     X     X     X     X   X     X     X     X     X     X     X     X     X     X     X   X     X     X     X     X   X     X   X     X	] No ] No ] No If Yes, rate:	<b>b</b> pd
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	300 psig	psig	psig
End of test pressure	300 psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	
0 minutes	1940 psig	psig	psig
5 minutes	1940 psig	psig	psig
10 minutes	1940 psig	psig	psig
15 minutes	1940 psig	psig	psig
20 minutes	1940 psig	psig	psig
25 minutes	19 60 psig	psig	psig
30 minutes	1940 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[X] Pass [ ]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test? [ ] Yes MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:		

Sundry Number: 44225 API Well Number: 43047349330000 6 AM 9 5000 1750 6 1500 1250 1000 750 Complete Econorols IIC CHART NO. MC MP-2500 CHART PUT ON P M 6-6-4-18 MIDNIGHT 005 -094 -0001--1520-1200 9 -5520 M9 8

Sundry Number: 44225 API Well Number: 43047349330000
Summary Rig Activity
Page 1 of 5

## **Daily Activity Report**

Format For Sundry FEDERAL 6-6-9-18 8/1/2013 To 12/30/2013

### 9/11/2013 Day: 1

**Host Well Gyro** 

Nabors #1108 on 9/11/2013 - MIRU, TOOH w/ rods. - catch rods, LD PR, TOOH w/ 72 rods, SWIFN. - Crew Travel - Unseat pump, flush tbg w/ 40 BW. - Unhang rods, RD PU - RU hot oiler, MIRU, pump 40 BW dn csg - Crew Travel - RU hot oiler, MIRU, pump 40 BW dn csg - Unhang rods, RD PU - Unseat pump, flush tbg w/ 40 BW. - Soft seat, psi test tbg to 3000 psi, bad test (Bleed dwn 2000psi in 1 min). - catch rods, LD PR, TOOH w/ 72 rods, SWIFN. - Crew Travel - catch rods, LD PR, TOOH w/ 72 rods, SWIFN. - Soft seat, psi test tbg to 3000 psi, bad test (Bleed dwn 2000psi in 1 min). - Unseat pump, flush tbg w/ 40 BW. - Unhang rods, RD PU - RU hot oiler, MIRU, pump 40 BW dn csg - Soft seat, psi test tbg to 3000 psi, bad test (Bleed dwn 2000psi in 1 min).

Daily Cost: \$0

Cumulative Cost: \$4,842

#### 9/12/2013 Day: 2

**Host Well Gyro** 

Nabors #1108 on 9/12/2013 - cont TOOH w/ rods, GYRO well, work on TAC. SDFN - Crew travel. - ND wellhead, try to relese TAC, no luck, NU BOP, RU workfloor, pump 35BW dwn csg, cont working on rel TAC, no luck. Order power swivel. Work on TAC, released @ 1730pm, PU tbg 10'. SWIFN. - MIRU MS survey, GYRO wellbore, RDMO GYRO unit. - Flush tbg w/ 30BW, cont TOOH w/ rods. - Crew Travel - MIRU MS survey, GYRO wellbore, RDMO GYRO unit. - Crew travel. - ND wellhead, try to relese TAC, no luck, NU BOP, RU workfloor, pump 35BW dwn csg, cont working on rel TAC, no luck. Order power swivel. Work on TAC, released @ 1730pm, PU tbg 10'. SWIFN. - MIRU MS survey, GYRO wellbore, RDMO GYRO unit. - Flush tbg w/ 30BW, cont TOOH w/ rods. - Crew Travel - Crew travel. - ND wellhead, try to relese TAC, no luck, NU BOP, RU workfloor, pump 35BW dwn csg, cont working on rel TAC, no luck. Order power swivel. Work on TAC, released @ 1730pm, PU tbg 10'. SWIFN. - Flush tbg w/ 30BW, cont TOOH w/ rods. - Crew Travel Finalized

Daily Cost: \$0

Cumulative Cost: \$15,798

### 9/13/2013 Day: 3

**Host Well Gyro** 

Nabors #1108 on 9/13/2013 - Swivel out of hole, tbg kept hanging up. - TOOH w/ 38jts, hung up, Pump 30 BW dwn csg - Travel time - RU pwr swivel, swivel out 5jts. - TOOH w/ 38jts, hung up, Pump 30 BW dwn csg - Flush tbg w/ 30BW. - Swivel out 5jts, pulled free. - Check psi, tbg 20psi, csg 20psi, Bleed down well, open BOP, RU powerswivel. - Travel time - Check psi, tbg 20psi, csg 20psi, Bleed down well, open BOP, RU powerswivel. - Swivel out 5jts, pulled free. - Check psi, tbg 20psi, csg 20psi, Bleed down well, open BOP, RU powerswivel. - Travel time - Travel time - RU pwr swivel, swivel out 5jts. - Travel time - TOOH w/ 38jts, hung up, Pump 30 BW dwn csg - Flush tbg w/ 30BW. - RU pwr swivel, swivel out 5jts.

**Daily Cost: \$0** 

Cumulative Cost: \$24,140

9/16/2013 Day: 4

**Host Well Gyro** 

Sundry Number: 44225 API Well Number: 43047349330000
Summary Rig Activity
Page 2 of 5

Nabors #1108 on 9/16/2013 - TOH w/ tbg - Crew travel - CHECK PRESSURES, TBG AND CSG 30 PSI, BD WELL AND OPEN BOP, SWIVEL OUT 12 MORE JNTS (JUST ABOVE PERFS) HAD TO DRILL OFF ON WAY OUT OF WELL. - RD POWER SWIVEL AND PREP TO PULL TBG. - FINISH POOH WITH TBG AND BHA - TIH WITH SCRAPER RUN PRESSURE TESTING ON WAY IN, TAG FILL @ 5885', 40' OF TOTAL FILL. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE, RD SANDLINE AND FISHING TOOLS. - POOH WITH 94 JNTS TBG, SWIFN, CLEAN LOCATION, SDFN. - Crew travel - CHECK PRESSURES, TBG AND CSG 30 PSI, BD WELL AND OPEN BOP, SWIVEL OUT 12 MORE JNTS (JUST ABOVE PERFS) HAD TO DRILL OFF ON WAY OUT OF WELL. - RD POWER SWIVEL AND PREP TO PULL TBG. - FINISH POOH WITH TBG AND BHA - TIH WITH SCRAPER RUN PRESSURE TESTING ON WAY IN, TAG FILL @ 5885', 40' OF TOTAL FILL. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE, RD SANDLINE AND FISHING TOOLS. - POOH WITH 94 JNTS TBG, SWIFN, CLEAN LOCATION, SDFN. - Crew travel - CHECK PRESSURES, TBG AND CSG 30 PSI, BD WELL AND OPEN BOP, SWIVEL OUT 12 MORE JNTS (JUST ABOVE PERFS) HAD TO DRILL OFF ON WAY OUT OF WELL. - RD POWER SWIVEL AND PREP TO PULL TBG. - FINISH POOH WITH TBG AND BHA - TIH WITH SCRAPER RUN PRESSURE TESTING ON WAY IN, TAG FILL @ 5885', 40' OF TOTAL FILL. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE, RD SANDLINE AND FISHING TOOLS. - POOH WITH 94 JNTS TBG, SWIFN, CLEAN LOCATION, SDFN. Finalized

Daily Cost: \$0

Cumulative Cost: \$32,882

#### 9/17/2013 Day: 5

**Host Well Gyro** 

Nabors #1108 on 9/17/2013 - Trip for production. - TIH w/ tbg and bailer, bail sand to PBTD. - TIH w/ tbg. Tubing detail as follows: NC 2 jts, PCN 3 jts, TAC 180 jts. - Check pressures, tbg and csg 60 PSI, BD well open BOP, flush tbg w/ 30 BW, finish POOH w/ csg scraper. - Travel time. - POOH w/ tbg and bailer, C/O sand fron tbg, LD bailer. Flush tbg 1 time on way out w/ 50 BW. - Travel time. - Check pressures, tbg and csg 60 PSI, BD well open BOP, flush tbg w/ 30 BW, finish POOH w/ csg scraper. - On standby waiting for sand bailer to show up. - TIH w/ tbg and bailer, bail sand to PBTD. - POOH w/ tbg and bailer, C/O sand fron tbg, LD bailer. Flush tbg 1 time on way out w/ 50 BW. - TIH w/ tbg. Tubing detail as follows: NC 2 jts, PCN 3 jts, TAC 180 jts. - RD work floor, ND BOP, set TAC, land tbg in 18000K tension, NU WH, RU flow line, SWIFN. Clean location. SDFN - RD work floor, ND BOP, set TAC, land tbg in 18000K tension, NU WH, RU flow line, SWIFN. Clean location. SDFN - TIH w/ tbg. Tubing detail as follows: NC 2 jts, PCN 3 jts, TAC 180 jts. - POOH w/ tbg and bailer, C/O sand fron tbg, LD bailer. Flush tbg 1 time on way out w/ 50 BW. - TIH w/ tbg and bailer, bail sand to PBTD. - On standby waiting for sand bailer to show up. - Check pressures, tbg and csg 60 PSI, BD well open BOP, flush tbg w/ 30 BW, finish POOH w/ csg scraper. - Travel time. - RD work floor, ND BOP, set TAC, land tbg in 18000K tension, NU WH, RU flow line, SWIFN. Clean location. SDFN - On standby waiting for sand bailer to show up.

**Daily Cost:** \$0

**Cumulative Cost:** \$41,883

#### 9/18/2013 Day: 6

**Host Well Gyro** 

Nabors #1108 on 9/18/2013 - TIH production rods - RD rig, RO tools and winch truck. Clean location and do pre-trip inspection. MR to the 13-35R-8-17. - Hang horsehead, hang off rods and reconnect automation and chemical lines. - Shut down due to high concentration of lightning strikes, within 3 seconds creating unsafe working conditions. - Load tbg w/ 10BW, Long stroke press. Test to 800PSI, Good test. - Checked press. Tbg 15 PSI, flushed tbg w/ 40 bbls using hot oiler. RIH w/ rod string as follows: 25-150-RHAC-20-5-24' Pump, 6 wt bars, 10- 3/4" 4 per rods, 114 slick 3/4" rods, 100- 3/4" 4 per rods, 2- x 3/4" pony rod, and 1 1/2" x 22' polish rod. - Hang horsehead, hang off rods and reconnect automation and chemical

Sundry Number: 44225 API Well Number: 43047349330000

Summary Rig Activity

Page 3 of 5

lines. - RD rig, RO tools and winch truck. Clean location and do pre-trip inspection. MR to the 13-35R-8-17. - Shut down due to high concentration of lightning strikes, within 3 seconds creating unsafe working conditions. - Load tbg w/ 10BW, Long stroke press. Test to 800PSI, Good test. - Checked press. Tbg 15 PSI, flushed tbg w/ 40 bbls using hot oiler. RIH w/ rod string as follows: 25-150-RHAC-20-5-24' Pump, 6 wt bars, 10-3/4'' 4 per rods, 14-s slick 3/4'' rods, 100-3/4'' 4 per rods, 2-x 3/4'' pony rod, and 11/2''x 22' polish rod. - RD rig, RO tools and winch truck. Clean location and do pre-trip inspection. MR to the 13-35R-8-17. - Hang horsehead, hang off rods and reconnect automation and chemical lines. - Shut down due to high concentration of lightning strikes, within 3 seconds creating unsafe working conditions. - Load tbg w/ 10BW, Long stroke press. Test to 800PSI, Good test. - Checked press. Tbg 15-PSI, flushed tbg w/ 40 bbls using hot oiler. RIH w/ rod string as follows: 25-150-RHAC-20-5-24'Pump, 6 wt bars, 10-3/4''4 per rods, 14-s lick 3/4'' rods, 100-3/4''4 per rods, 2-x 3/4'' pony rod, and 11/2''x 22' polish rod. **Finalized** 

Daily Cost: \$0

**Cumulative Cost:** \$51,045

#### 10/19/2013 Day: 2

Conversion

wws #3 on 10/19/2013 - CONT. TOOH breaking and redoping - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL - CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000 OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS, RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS, TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1- 3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL - CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000

Sundry Number: 44225 API Well Number: 43047349330000
Summary Rig Activity
Page 4 of 5

OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS, RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS. TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1-3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL -CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000 OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS, RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS. TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1-3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL - CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000 OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS. RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS. TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1- 3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL - CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000 OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS, RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS. TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1- 3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL - CREW TRAVEL (CHANGING DRILL LINE) LOAM FROM 22-12J-9-16 TO 6-6-9-18 MIRU RD PUMPING UNIT, PUMP 60 BBLS DOWN CSG UNSEAT PUMP W/ 4000 OVER STRING WT. FLUSH RODS & TBG W/ 40 BBLS, RERSEAT PUMP SOFT SEAT TO 3000 PSI W/ 10 BBLS. TOOH W/ RODS LD AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1- 3/4X2' PONY RODS, 100 3/4 4 PER RODS, 114 3/4 SLICK RODS, 10 3/4 4-PER RODS, 6 1 1/2 WT BARS, AND PUMP, ND WELL HEAD, X-OVER TO TBG EQUIP, RELEASE TAC, NU BOPS, RU FLOOR TOOH BREAKING & REDOPEING EVERY COLLAR ON A TOTAL OF 48 lts. swifn CREW TRAVEL - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL - CREW TRAVEL & SAFETY MTG. ( WORKING WITH OTHER CONTRACTORS) - CONT. TOOH BREAKING & REDOPING EVERY COLLAR ON 134 JTS LD 51 JTS & BHA PU & TIH W/ BHA & TBG AS FOLLOWS 2 3/8 WIRE LINE RE-ENTRY TOOL, 2 3/8X1.87 XN NIPPLE, 2 3/8 X4' PUP JT, 2 3/8X 2 7/8 X-OVER, AS-1 PKR, ON-OFF TOOL, 2 7/8 PSN, 138 JTS 2 7/8 TBG, PUMP 10 BBL PAD DROP SV PRESS UP TBG TO 3000 PSI W/30 BBLS, GET GOOD TEST FISH SV ND BOPS LAND TBG W/ B-1 ADAPTOR, PUMP 75 BBLS PKR FLUID & FRESH WATER SET AS-1 PKR W/15000 TENSION PRESS UP CSG TO 1500 PSI GET GOOD TEST @ 5:00 RDMO CREW TRAVEL

Daily Cost: \$0

**Cumulative Cost:** \$24,619

### 10/22/2013 Day: 3

Conversion

Rigless on 10/22/2013 - Conduct initial MIT - Initial MIT on the above listed well. On 10/21/2013 the casing was pressured up to 1940 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not an EPA representative available to witness the test. EPA#

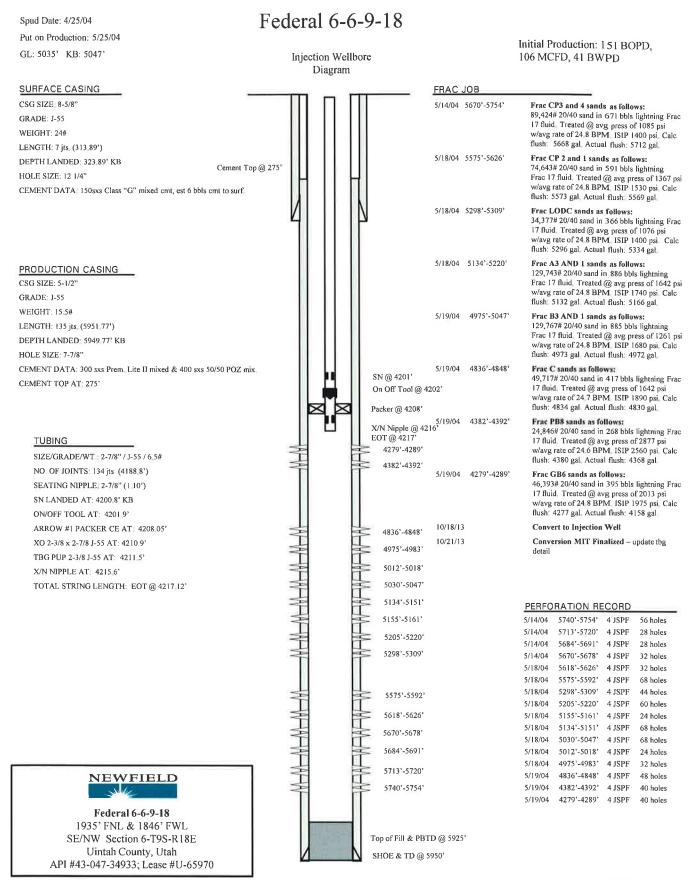
UT22197-10155 - Initial MIT on the above listed well. On 10/21/2013 the casing was pressured up to 1940 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10155 - Initial MIT on the above listed well. On 10/21/2013 the casing was pressured up to 1940 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10155 **Finalized** 

Daily Cost: \$0

Cumulative Cost: \$50,331

**Pertinent Files: Go to File List** 

Sundry Number: 44225 API Well Number: 43047349330000



Sundry Number: 45106 API Well Number: 43047349330000

	STATE OF UTAH			FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-65970
SUNDRY NOTICES AND REPORTS ON WELLS				6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horize n for such proposals.			7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: FEDERAL 6-6-9-18
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY			<b>9. API NUMBER:</b> 43047349330000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-482	PHONE NUMBER	₹:	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1935 FNL 1846 FWL				COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 06 Township: 09.0S Range: 18.0E Meri	idian: S		STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF	NOTICE, REPOR	₹T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE	OF ACTION	
	ACIDIZE	ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	i	CHANGE WELL NAME
Approximate date work will start.	✓ CHANGE WELL STATUS	COMMINGLE PRO	DDUCING FORMATIONS	✓ CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREA	т	NEW CONSTRUCTION
11/16/2013	OPERATOR CHANGE	PLUG AND ABAN	IDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION O	F WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO R	EPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE		WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EX	TENSION	APD EXTENSION
Report Date:		□ SITA STATUS EX	TENSION	
	WILDCAT WELL DETERMINATION	OTHER		OTHER:
The above ref	COMPLETED OPERATIONS. Clearly show erence well was put on inject /16/2013. EPA # UT22197	ction at 3:30		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 18, 2013
		,		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	<b>PHONE NUM</b> I 435 646-4874		rvices Technician	
SIGNATURE N/A		<b>DATE</b> 11/19/2	013	